

6) gamble01.exe

6.1)Gamble ruin:

Two players are A and B, A has k dollars and B has N-k dollars. Tossing a dice, if head outcome A takes a dollar from B, otherwise the tail outcome A gives a dollar to B. The game is over when A wins all money or B wins all money.

6.1.1)The $P(\text{Head})=0.5, k=5, N=10,$

~~~~~ Gambler ruin I ~~~~~

rule : Tossing a coin , the gambler will get \$1 if coin outcome is head  
and the gamble will loss \$1 if coin outcome is tail.

This game will stop when the money is gone  
and the tossing coin is independently.

The input data process:

1.  $P(\text{Head})=0.500000$
2. The money of the gambler own=\$5
3. The toal money of this game=\$10

$P(\text{loss all})= 0.4998340$

$P(\text{win all})= 0.5001660$

~~~~~ Win ~~~~~

| | |
|------------------------------|----------------------------------|
| $P(N1=5 \text{win all})=$ | 0.062512358273303315000000000000 |
| $P(N1=7 \text{win all})=$ | 0.078171469211711017000000000000 |
| $P(N1=9 \text{win all})=$ | 0.078171409626846503000000000000 |
| $P(N1=11 \text{win all})=$ | 0.073218894443952701000000000000 |
| $P(N1=13 \text{win all})=$ | 0.067134058288476600000000000000 |
| $P(N1=15 \text{win all})=$ | 0.061020591605606828000000000000 |
| $P(N1=17 \text{win all})=$ | 0.055318647789426849000000000000 |
| $P(N1=19 \text{win all})=$ | 0.050082210727176370000000000000 |
| $P(N1=21 \text{win all})=$ | 0.045329811311715804000000000000 |
| $P(N1=23 \text{win all})=$ | 0.041026651982175429000000000000 |
| $P(N1=25 \text{win all})=$ | 0.037054218443058812000000000000 |
| $P(N1=27 \text{win all})=$ | 0.033483923154472781000000000000 |
| $P(N1=29 \text{win all})=$ | 0.030277423256109659000000000000 |
| $P(N1=31 \text{win all})=$ | 0.027432603485279605000000000000 |
| $P(N1=33 \text{win all})=$ | 0.024835954675104438000000000000 |
| $P(N1=35 \text{win all})=$ | 0.022383143727839457000000000000 |
| $P(N1=37 \text{win all})=$ | 0.020305598257214216000000000000 |
| $P(N1=39 \text{win all})=$ | 0.018384433263477030000000000000 |
| $P(N1=41 \text{win all})=$ | 0.016558186958893086000000000000 |
| $P(N1=43 \text{win all})=$ | 0.014998791469985718000000000000 |
| $P(N1=45 \text{win all})=$ | 0.013626105153998423000000000000 |
| $P(N1=47 \text{win all})=$ | 0.012315357304661970000000000000 |
| $P(N1=49 \text{win all})=$ | 0.011105546215793557000000000000 |
| $P(N1=51 \text{win all})=$ | 0.010043475798460273000000000000 |
| $P(N1=53 \text{win all})=$ | 0.009096106245295216100000000000 |
| $P(N1=55 \text{win all})=$ | 0.008202065145860321800000000000 |
| $P(N1=57 \text{win all})=$ | 0.007442745425066655200000000000 |

| | |
|---------------------|----------------------------------|
| P(N1=59 win all)= | 0.006744738529846550400000000000 |
| P(N1=61 win all)= | 0.006088709171668791500000000000 |
| P(N1=63 win all)= | 0.005510467854099666700000000000 |
| P(N1=65 win all)= | 0.004971492962238002900000000000 |
| P(N1=67 win all)= | 0.004511229676384769700000000000 |
| P(N1=69 win all)= | 0.004054035011053439500000000000 |
| P(N1=71 win all)= | 0.003702514102918135900000000000 |
| P(N1=73 win all)= | 0.003344051558068235900000000000 |
| P(N1=75 win all)= | 0.002997267646660919300000000000 |
| P(N1=77 win all)= | 0.002724935023450070400000000000 |
| P(N1=79 win all)= | 0.002460556979650368700000000000 |
| P(N1=81 win all)= | 0.002234045117242307500000000000 |
| P(N1=83 win all)= | 0.002008635574827551800000000000 |
| P(N1=85 win all)= | 0.001824756682971369600000000000 |
| P(N1=87 win all)= | 0.001664860699077635200000000000 |
| P(N1=89 win all)= | 0.001485242125033416000000000000 |
| P(N1=91 win all)= | 0.001345187901019172300000000000 |
| P(N1=93 win all)= | 0.001225899002284215500000000000 |
| P(N1=95 win all)= | 0.001103452105730601100000000000 |
| P(N1=97 win all)= | 0.001004422060926656100000000000 |
| P(N1=99 win all)= | 0.000910099220418446020000000000 |
| P(N1=101 win all)= | 0.000813988833975146730000000000 |
| P(N1=103 win all)= | 0.000734979303644201330000000000 |
| P(N1=105 win all)= | 0.000664639371098438940000000000 |
| P(N1=107 win all)= | 0.000608182711981869810000000000 |
| P(N1=109 win all)= | 0.000551994184755563920000000000 |
| P(N1=111 win all)= | 0.000491068660801271660000000000 |
| P(N1=113 win all)= | 0.000445843748643513300000000000 |
| P(N1=115 win all)= | 0.000402644721878856190000000000 |
| P(N1=117 win all)= | 0.000367668406415609640000000000 |
| P(N1=119 win all)= | 0.000331679148255812500000000000 |
| P(N1=121 win all)= | 0.000301439829520552480000000000 |
| P(N1=123 win all)= | 0.000270932378895029050000000000 |
| P(N1=125 win all)= | 0.000243880850410678240000000000 |
| P(N1=127 win all)= | 0.000222996355402385380000000000 |
| P(N1=129 win all)= | 0.000202737501471373740000000000 |
| P(N1=131 win all)= | 0.000183580967533667170000000000 |
| P(N1=133 win all)= | 0.000159866191461482970000000000 |
| P(N1=135 win all)= | 0.000150779499624779210000000000 |
| P(N1=137 win all)= | 0.000134483039183215450000000000 |
| P(N1=139 win all)= | 0.000123489631682416480000000000 |
| P(N1=141 win all)= | 0.000108891339879187520000000000 |
| P(N1=143 win all)= | 0.000100102572364998640000000000 |
| P(N1=145 win all)= | 0.000089287919457708620000000000 |
| P(N1=147 win all)= | 0.000081184377885303968000000000 |
| P(N1=149 win all)= | 0.000075642985486527254000000000 |
| P(N1=151 win all)= | 0.000066586086082074997000000000 |
| P(N1=153 win all)= | 0.000058691091535430756000000000 |
| P(N1=155 win all)= | 0.000053983887239695702000000000 |
| P(N1=157 win all)= | 0.000049932116453493376000000000 |

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|---------------------|----------------------------------|
| P(N1=159 win all)= | 0.000043437366222669057000000000 |
| P(N1=161 win all)= | 0.000040487915429771775000000000 |
| P(N1=163 win all)= | 0.000036525521940323908000000000 |
| P(N1=165 win all)= | 0.000033188769528157289000000000 |
| P(N1=167 win all)= | 0.000029434923064469841000000000 |
| P(N1=169 win all)= | 0.000026753604161835946000000000 |
| P(N1=171 win all)= | 0.000023625398775429739000000000 |
| P(N1=173 win all)= | 0.000022701833375633620000000000 |
| P(N1=175 win all)= | 0.000018947986911946172000000000 |
| P(N1=177 win all)= | 0.000018888402047443199000000000 |
| P(N1=179 win all)= | 0.000016475215035072696000000000 |
| P(N1=181 win all)= | 0.000014210990183959630000000000 |
| P(N1=183 win all)= | 0.000012572406410127807000000000 |
| P(N1=185 win all)= | 0.000012095727494104004000000000 |
| P(N1=187 win all)= | 0.000010099634533254327000000000 |
| P(N1=189 win all)= | 0.000009116484268955233800000000 |
| P(N1=191 win all)= | 0.000009593163184979036400000000 |
| P(N1=193 win all)= | 0.000008520635623925480400000000 |
| P(N1=195 win all)= | 0.000007001221579099608100000000 |
| P(N1=197 win all)= | 0.000005541392398776711200000000 |
| P(N1=199 win all)= | 0.000006196825908309439800000000 |
| P(N1=201 win all)= | 0.000005124298347255883000000000 |
| P(N1=203 win all)= | 0.000005064713482752907600000000 |
| P(N1=205 win all)= | 0.000003962393489447862700000000 |
| P(N1=207 win all)= | 0.000003306959979915134000000000 |
| P(N1=209 win all)= | 0.000004021978353950838900000000 |
| P(N1=211 win all)= | 0.000003217582683160670600000000 |
| P(N1=213 win all)= | 0.000003098412954154719900000000 |
| P(N1=215 win all)= | 0.000002055677825352650700000000 |
| P(N1=217 win all)= | 0.000002353602147867527800000000 |
| P(N1=219 win all)= | 0.000002085470257604138400000000 |
| P(N1=221 win all)= | 0.000001966300528598187700000000 |
| P(N1=223 win all)= | 0.000001489621612574384600000000 |
| P(N1=225 win all)= | 0.000001668376206083310800000000 |
| P(N1=227 win all)= | 0.000001698168638334798500000000 |
| P(N1=229 win all)= | 0.000001549206477077360000000000 |
| P(N1=231 win all)= | 0.000001370451883568434000000000 |
| P(N1=233 win all)= | 0.000001012942696550581500000000 |
| P(N1=235 win all)= | 0.000001012942696550581500000000 |
| P(N1=237 win all)= | 0.000000506471348275290760000000 |
| P(N1=239 win all)= | 0.000000863980535293143090000000 |
| P(N1=241 win all)= | 0.000000834188103041655420000000 |
| P(N1=243 win all)= | 0.000000715018374035704650000000 |
| P(N1=245 win all)= | 0.000000625641077281241540000000 |
| P(N1=247 win all)= | 0.000000595848645029753870000000 |
| P(N1=249 win all)= | 0.000000387301619269339990000000 |
| P(N1=251 win all)= | 0.000000446886483772315380000000 |
| P(N1=253 win all)= | 0.000000357509187017852320000000 |
| P(N1=255 win all)= | 0.000000297924322514876940000000 |
| P(N1=257 win all)= | 0.000000238339458011901550000000 |

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| P(N1=259 win all)= | 0.000000387301619269339990000000 |
| P(N1=261 win all)= | 0.000000268131890263389220000000 |
| P(N1=263 win all)= | 0.000000327716754766364600000000 |
| P(N1=265 win all)= | 0.000000119169729005950770000000 |
| P(N1=267 win all)= | 0.000000178754593508926160000000 |
| P(N1=269 win all)= | 0.000000178754593508926160000000 |
| P(N1=271 win all)= | 0.000000148962161257438470000000 |
| P(N1=273 win all)= | 0.000000178754593508926160000000 |
| P(N1=275 win all)= | 0.000000178754593508926160000000 |
| P(N1=277 win all)= | 0.000000029792432251487694000000 |
| P(N1=279 win all)= | 0.000000119169729005950770000000 |
| P(N1=281 win all)= | 0.000000119169729005950770000000 |
| P(N1=283 win all)= | 0.000000089377296754463081000000 |
| P(N1=285 win all)= | 0.000000089377296754463081000000 |
| P(N1=287 win all)= | 0.000000029792432251487694000000 |
| P(N1=289 win all)= | 0.000000059584864502975387000000 |
| P(N1=291 win all)= | 0.000000029792432251487694000000 |
| P(N1=293 win all)= | 0.000000029792432251487694000000 |
| P(N1=295 win all)= | 0.000000119169729005950770000000 |
| P(N1=299 win all)= | 0.000000059584864502975387000000 |
| P(N1=303 win all)= | 0.000000029792432251487694000000 |
| P(N1=305 win all)= | 0.000000089377296754463081000000 |
| P(N1=311 win all)= | 0.000000059584864502975387000000 |
| P(N1=313 win all)= | 0.000000029792432251487694000000 |
| P(N1=317 win all)= | 0.000000029792432251487694000000 |
| P(N1=319 win all)= | 0.000000029792432251487694000000 |
| P(N1=321 win all)= | 0.000000029792432251487694000000 |
| P(N1=325 win all)= | 0.000000029792432251487694000000 |
| Win all ave= | 24.9958953773 varaince= 399.8326980441 |
| ~~~~~ Loss ~~~~~ | |
| P(N0=5 loss all)= | 0.062500661458611120000000000000 |
| P(N0=7 loss all)= | 0.078117345246932077000000000000 |
| P(N0=9 loss all)= | 0.078044096624621792000000000000 |
| P(N0=11 loss all)= | 0.073283025611110997000000000000 |
| P(N0=13 loss all)= | 0.067093621368659304000000000000 |
| P(N0=15 loss all)= | 0.060984829366633742000000000000 |
| P(N0=17 loss all)= | 0.055256143158037584000000000000 |
| P(N0=19 loss all)= | 0.050091474322452478000000000000 |
| P(N0=21 loss all)= | 0.045367668582807302000000000000 |
| P(N0=23 loss all)= | 0.041057149636441477000000000000 |
| P(N0=25 loss all)= | 0.037061447723692485000000000000 |
| P(N0=27 loss all)= | 0.033518772292273152000000000000 |
| P(N0=29 loss all)= | 0.030383689520286514000000000000 |
| P(N0=31 loss all)= | 0.027455294863268195000000000000 |
| P(N0=33 loss all)= | 0.024785729892410981000000000000 |
| P(N0=35 loss all)= | 0.022483362024116119000000000000 |
| P(N0=37 loss all)= | 0.020288109459020615000000000000 |

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| P(N0=39 loss all)= | 0.018339165448067369000000000000 |
| P(N0=41 loss all)= | 0.016620043834098222000000000000 |
| P(N0=43 loss all)= | 0.015018889171078105000000000000 |
| P(N0=45 loss all)= | 0.013605611112778939000000000000 |
| P(N0=47 loss all)= | 0.012265611489009145000000000000 |
| P(N0=49 loss all)= | 0.011118616171644209000000000000 |
| P(N0=51 loss all)= | 0.010051666662542643000000000000 |
| P(N0=53 loss all)= | 0.009098659454812620100000000000 |
| P(N0=55 loss all)= | 0.008240902287083143300000000000 |
| P(N0=57 loss all)= | 0.007430844669901670400000000000 |
| P(N0=59 loss all)= | 0.006708107042442136200000000000 |
| P(N0=61 loss all)= | 0.006077697857512081300000000000 |
| P(N0=63 loss all)= | 0.005509268276075339100000000000 |
| P(N0=65 loss all)= | 0.004963227671177066800000000000 |
| P(N0=67 loss all)= | 0.004503076069484293300000000000 |
| P(N0=69 loss all)= | 0.004085168382245595600000000000 |
| P(N0=71 loss all)= | 0.003700083948227742700000000000 |
| P(N0=73 loss all)= | 0.003333274404513593800000000000 |
| P(N0=75 loss all)= | 0.003016728262189404100000000000 |
| P(N0=77 loss all)= | 0.002726208187132968800000000000 |
| P(N0=79 loss all)= | 0.002457182722042227700000000000 |
| P(N0=81 loss all)= | 0.002223126989946991800000000000 |
| P(N0=83 loss all)= | 0.002010863990008375100000000000 |
| P(N0=85 loss all)= | 0.001829665322364145900000000000 |
| P(N0=87 loss all)= | 0.001660719476766935100000000000 |
| P(N0=89 loss all)= | 0.001488136540440439100000000000 |
| P(N0=91 loss all)= | 0.001349211599469378300000000000 |
| P(N0=93 loss all)= | 0.001227667182229246200000000000 |
| P(N0=95 loss all)= | 0.001106838258247334300000000000 |
| P(N0=97 loss all)= | 0.000997218728644203150000000000 |
| P(N0=99 loss all)= | 0.000908378315748546170000000000 |
| P(N0=101 loss all)= | 0.000827348704255124910000000000 |
| P(N0=103 loss all)= | 0.000734692327315627620000000000 |
| P(N0=105 loss all)= | 0.000659893469612539220000000000 |
| P(N0=107 loss all)= | 0.000598778420472909430000000000 |
| P(N0=109 loss all)= | 0.000554686148435098500000000000 |
| P(N0=111 loss all)= | 0.000496194574575608920000000000 |
| P(N0=113 loss all)= | 0.000445960985404742470000000000 |
| P(N0=115 loss all)= | 0.000403746883169759130000000000 |
| P(N0=117 loss all)= | 0.000365736303826818650000000000 |
| P(N0=119 loss all)= | 0.000334105539369673670000000000 |
| P(N0=121 loss all)= | 0.000300149421823313520000000000 |
| P(N0=123 loss all)= | 0.000267892600765226020000000000 |
| P(N0=125 loss all)= | 0.000248007850630526970000000000 |
| P(N0=127 loss all)= | 0.000226125681816630230000000000 |
| P(N0=129 loss all)= | 0.000201172854436205770000000000 |
| P(N0=131 loss all)= | 0.000179588807813234090000000000 |
| P(N0=133 loss all)= | 0.000160985983099512620000000000 |
| P(N0=135 loss all)= | 0.000151386448551726870000000000 |
| P(N0=137 loss all)= | 0.000134423295888093050000000000 |

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| P(N0=139 loss all)= | 0.000119427749684564370000000000 |
| P(N0=141 loss all)= | 0.000112064131568716280000000000 |
| P(N0=143 loss all)= | 0.000100139243931715350000000000 |
| P(N0=145 loss all)= | 0.000087618111912864366000000000 |
| P(N0=147 loss all)= | 0.000080612240426126321000000000 |
| P(N0=149 loss all)= | 0.000072235006861133164000000000 |
| P(N0=151 loss all)= | 0.000067375615149055281000000000 |
| P(N0=153 loss all)= | 0.000060041809252299710000000000 |
| P(N0=155 loss all)= | 0.000053811055461966722000000000 |
| P(N0=157 loss all)= | 0.000049100724845351351000000000 |
| P(N0=159 loss all)= | 0.000043227717684128392000000000 |
| P(N0=161 loss all)= | 0.000039918561364860629000000000 |
| P(N0=163 loss all)= | 0.000035923724006465316000000000 |
| P(N0=165 loss all)= | 0.000031928886648070004000000000 |
| P(N0=167 loss all)= | 0.000028023485946952195000000000 |
| P(N0=169 loss all)= | 0.000027158931593269628000000000 |
| P(N0=171 loss all)= | 0.000024207521903111898000000000 |
| P(N0=173 loss all)= | 0.000022061042128451729000000000 |
| P(N0=175 loss all)= | 0.000021047426679306650000000000 |
| P(N0=177 loss all)= | 0.000018900946904646481000000000 |
| P(N0=179 loss all)= | 0.000015770663899933736000000000 |
| P(N0=181 loss all)= | 0.000014757048450788657000000000 |
| P(N0=183 loss all)= | 0.000013504935248903558000000000 |
| P(N0=185 loss all)= | 0.000011298831036058386000000000 |
| P(N0=187 loss all)= | 0.000010613149996930832000000000 |
| P(N0=189 loss all)= | 0.000009897656738710775500000000 |
| P(N0=191 loss all)= | 0.000009510097890508245600000000 |
| P(N0=193 loss all)= | 0.000007780989183143109600000000 |
| P(N0=195 loss all)= | 0.000007423242554033082100000000 |
| P(N0=197 loss all)= | 0.000006469251543073006800000000 |
| P(N0=199 loss all)= | 0.000005932631599407965500000000 |
| P(N0=201 loss all)= | 0.000005902819380315463100000000 |
| P(N0=203 loss all)= | 0.000005276762779372913700000000 |
| P(N0=205 loss all)= | 0.000004442020644782848100000000 |
| P(N0=207 loss all)= | 0.000003875588482025303600000000 |
| P(N0=209 loss all)= | 0.000004173710672950327000000000 |
| P(N0=211 loss all)= | 0.000003696715167470289800000000 |
| P(N0=213 loss all)= | 0.000002444601965585191400000000 |
| P(N0=215 loss all)= | 0.000002206104212845172800000000 |
| P(N0=217 loss all)= | 0.000002176291993752670800000000 |
| P(N0=219 loss all)= | 0.000002265728651030177700000000 |
| P(N0=221 loss all)= | 0.000001609859830995126300000000 |
| P(N0=223 loss all)= | 0.000001699296488272633200000000 |
| P(N0=225 loss all)= | 0.000001460798735532614600000000 |
| P(N0=227 loss all)= | 0.000001937794241012651800000000 |
| P(N0=229 loss all)= | 0.000000983803230052577110000000 |
| P(N0=231 loss all)= | 0.000001043427668237581800000000 |
| P(N0=233 loss all)= | 0.000001013615449145079500000000 |
| P(N0=235 loss all)= | 0.000001132864325515088800000000 |
| P(N0=237 loss all)= | 0.000000685681039127553730000000 |

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P(N0=239 | loss all)= 0.000000834742134590065470000000
P(N0=241 | loss all)= 0.000000834742134590065470000000
P(N0=243 | loss all)= 0.000000536619943665042100000000
P(N0=245 | loss all)= 0.000000566432162757544420000000
P(N0=247 | loss all)= 0.000000596244381850046750000000
P(N0=249 | loss all)= 0.000000298122190925023380000000
P(N0=251 | loss all)= 0.000000566432162757544420000000
P(N0=253 | loss all)= 0.000000387558848202530410000000
P(N0=255 | loss all)= 0.000000476995505480037440000000
P(N0=257 | loss all)= 0.000000387558848202530410000000
P(N0=259 | loss all)= 0.000000387558848202530410000000
P(N0=261 | loss all)= 0.000000327934410017525700000000
P(N0=263 | loss all)= 0.000000327934410017525700000000
P(N0=265 | loss all)= 0.000000178873314555014010000000
P(N0=267 | loss all)= 0.000000268309971832521050000000
P(N0=269 | loss all)= 0.000000178873314555014010000000
P(N0=271 | loss all)= 0.000000208685533647516370000000
P(N0=273 | loss all)= 0.000000119248876370009360000000
P(N0=275 | loss all)= 0.000000119248876370009360000000
P(N0=277 | loss all)= 0.000000089436657277507007000000
P(N0=279 | loss all)= 0.000000059624438185004680000000
P(N0=281 | loss all)= 0.000000089436657277507007000000
P(N0=283 | loss all)= 0.000000149061095462511690000000
P(N0=285 | loss all)= 0.000000149061095462511690000000
P(N0=287 | loss all)= 0.000000149061095462511690000000
P(N0=289 | loss all)= 0.000000029812219092502340000000
P(N0=291 | loss all)= 0.000000059624438185004680000000
P(N0=293 | loss all)= 0.000000089436657277507007000000
P(N0=295 | loss all)= 0.000000029812219092502340000000
P(N0=299 | loss all)= 0.000000059624438185004680000000
P(N0=301 | loss all)= 0.000000029812219092502340000000
P(N0=303 | loss all)= 0.000000059624438185004680000000
P(N0=305 | loss all)= 0.000000029812219092502340000000
P(N0=307 | loss all)= 0.000000029812219092502340000000
P(N0=311 | loss all)= 0.000000089436657277507007000000
P(N0=315 | loss all)= 0.000000059624438185004680000000
P(N0=317 | loss all)= 0.000000029812219092502340000000
P(N0=319 | loss all)= 0.000000029812219092502340000000
P(N0=323 | loss all)= 0.000000029812219092502340000000
P(N0=331 | loss all)= 0.000000029812219092502340000000
P(N0=333 | loss all)= 0.000000029812219092502340000000
Los all ave=          25.0002708440  varaince=          399.8379563551

~~~~~ Stop ~~~~~
P(N=5 | stop )= 0.062506511807441711000000000000
P(N=7 | stop )= 0.078144416213035583000000000000
P(N=9 | stop )= 0.078107774257659912000000000000
P(N=11 | stop )= 0.073250949382781982000000000000

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| | |
|-------------------|----------------------------------|
| P(N=13 stop)= | 0.067113846540451050000000000000 |
| P(N=15 stop)= | 0.061002716422080994000000000000 |
| P(N=17 stop)= | 0.055287405848503113000000000000 |
| P(N=19 stop)= | 0.050086840987205505000000000000 |
| P(N=21 stop)= | 0.045348733663558960000000000000 |
| P(N=23 stop)= | 0.041041895747184753000000000000 |
| P(N=25 stop)= | 0.037057831883430481000000000000 |
| P(N=27 stop)= | 0.033501341938972473000000000000 |
| P(N=29 stop)= | 0.030330538749694824000000000000 |
| P(N=31 stop)= | 0.027443945407867432000000000000 |
| P(N=33 stop)= | 0.024810850620269775000000000000 |
| P(N=35 stop)= | 0.022433236241340637000000000000 |
| P(N=37 stop)= | 0.020296856760978699000000000000 |
| P(N=39 stop)= | 0.018361806869506836000000000000 |
| P(N=41 stop)= | 0.016589105129241943000000000000 |
| P(N=43 stop)= | 0.015008836984634399000000000000 |
| P(N=45 stop)= | 0.013615861535072327000000000000 |
| P(N=47 stop)= | 0.012290492653846741000000000000 |
| P(N=49 stop)= | 0.011112079024314880000000000000 |
| P(N=51 stop)= | 0.010047569870948792000000000000 |
| P(N=53 stop)= | 0.009097382426261901900000000000 |
| P(N=55 stop)= | 0.008221477270126342800000000000 |
| P(N=57 stop)= | 0.007436797022819519000000000000 |
| P(N=59 stop)= | 0.006726428866386413600000000000 |
| P(N=61 stop)= | 0.006083205342292785600000000000 |
| P(N=63 stop)= | 0.005509868264198303200000000000 |
| P(N=65 stop)= | 0.004967361688613891600000000000 |
| P(N=67 stop)= | 0.004507154226303100600000000000 |
| P(N=69 stop)= | 0.004069596529006958000000000000 |
| P(N=71 stop)= | 0.003701299428939819300000000000 |
| P(N=73 stop)= | 0.003338664770126342800000000000 |
| P(N=75 stop)= | 0.003006994724273681600000000000 |
| P(N=77 stop)= | 0.002725571393966674800000000000 |
| P(N=79 stop)= | 0.002458870410919189500000000000 |
| P(N=81 stop)= | 0.002228587865829467800000000000 |
| P(N=83 stop)= | 0.002009749412536621100000000000 |
| P(N=85 stop)= | 0.001827210187911987300000000000 |
| P(N=87 stop)= | 0.001662790775299072300000000000 |
| P(N=89 stop)= | 0.001486688852310180700000000000 |
| P(N=91 stop)= | 0.001347199082374572800000000000 |
| P(N=93 stop)= | 0.001226782798767089800000000000 |
| P(N=95 stop)= | 0.001105144619941711400000000000 |
| P(N=97 stop)= | 0.001000821590423584000000000000 |
| P(N=99 stop)= | 0.000909239053726196290000000000 |
| P(N=101 stop)= | 0.000820666551589965820000000000 |
| P(N=103 stop)= | 0.000734835863113403320000000000 |
| P(N=105 stop)= | 0.000662267208099365230000000000 |
| P(N=107 stop)= | 0.000603482127189636230000000000 |
| P(N=109 stop)= | 0.000553339719772338870000000000 |
| P(N=111 stop)= | 0.000493630766868591310000000000 |

| | |
|-------------------|----------------------------------|
| P(N=113 stop)= | 0.000445902347564697270000000000 |
| P(N=115 stop)= | 0.000403195619583129880000000000 |
| P(N=117 stop)= | 0.000366702675819396970000000000 |
| P(N=119 stop)= | 0.000332891941070556640000000000 |
| P(N=121 stop)= | 0.000300794839859008790000000000 |
| P(N=123 stop)= | 0.000269412994384765630000000000 |
| P(N=125 stop)= | 0.000245943665504455570000000000 |
| P(N=127 stop)= | 0.000224560499191284180000000000 |
| P(N=129 stop)= | 0.000201955437660217290000000000 |
| P(N=131 stop)= | 0.000181585550308227540000000000 |
| P(N=133 stop)= | 0.000160425901412963870000000000 |
| P(N=135 stop)= | 0.000151082873344421390000000000 |
| P(N=137 stop)= | 0.000134453177452087400000000000 |
| P(N=139 stop)= | 0.000121459364891052250000000000 |
| P(N=141 stop)= | 0.000110477209091186520000000000 |
| P(N=143 stop)= | 0.000100120902061462400000000000 |
| P(N=145 stop)= | 0.000088453292846679688000000000 |
| P(N=147 stop)= | 0.000080898404121398926000000000 |
| P(N=149 stop)= | 0.000073939561843872070000000000 |
| P(N=151 stop)= | 0.000066980719566345215000000000 |
| P(N=153 stop)= | 0.000059366226196289063000000000 |
| P(N=155 stop)= | 0.000053897500038146973000000000 |
| P(N=157 stop)= | 0.000049516558647155762000000000 |
| P(N=159 stop)= | 0.000043332576751708984000000000 |
| P(N=161 stop)= | 0.000040203332901000977000000000 |
| P(N=163 stop)= | 0.000036224722862243652000000000 |
| P(N=165 stop)= | 0.000032559037208557129000000000 |
| P(N=167 stop)= | 0.000028729438781738281000000000 |
| P(N=169 stop)= | 0.000026956200599670410000000000 |
| P(N=171 stop)= | 0.000023916363716125488000000000 |
| P(N=173 stop)= | 0.000022381544113159180000000000 |
| P(N=175 stop)= | 0.000019997358322143555000000000 |
| P(N=177 stop)= | 0.000018894672393798828000000000 |
| P(N=179 stop)= | 0.000016123056411743164000000000 |
| P(N=181 stop)= | 0.000014483928680419922000000000 |
| P(N=183 stop)= | 0.000013038516044616699000000000 |
| P(N=185 stop)= | 0.000011697411537170410000000000 |
| P(N=187 stop)= | 0.000010356307029724121000000000 |
| P(N=189 stop)= | 0.000009506940841674804700000000 |
| P(N=191 stop)= | 0.000009551644325256347700000000 |
| P(N=193 stop)= | 0.000008150935173034668000000000 |
| P(N=195 stop)= | 0.000007212162017822265600000000 |
| P(N=197 stop)= | 0.000006005167961120605500000000 |
| P(N=199 stop)= | 0.000006064772605895996100000000 |
| P(N=201 stop)= | 0.000005513429641723632800000000 |
| P(N=203 stop)= | 0.000005170702934265136700000000 |
| P(N=205 stop)= | 0.000004202127456665039100000000 |
| P(N=207 stop)= | 0.000003591179847717285200000000 |
| P(N=209 stop)= | 0.000004097819328308105500000000 |
| P(N=211 stop)= | 0.000003457069396972656300000000 |

| | |
|-------------------|----------------------------------|
| P(N=213 stop)= | 0.000002771615982055664100000000 |
| P(N=215 stop)= | 0.000002130866050720214800000000 |
| P(N=217 stop)= | 0.000002264976501464843800000000 |
| P(N=219 stop)= | 0.000002175569534301757800000000 |
| P(N=221 stop)= | 0.000001788139343261718800000000 |
| P(N=223 stop)= | 0.000001594424247741699200000000 |
| P(N=225 stop)= | 0.000001564621925354003900000000 |
| P(N=227 stop)= | 0.000001817941665649414100000000 |
| P(N=229 stop)= | 0.000001266598701477050800000000 |
| P(N=231 stop)= | 0.000001206994056701660200000000 |
| P(N=233 stop)= | 0.000001013278961181640600000000 |
| P(N=235 stop)= | 0.000001072883605957031300000000 |
| P(N=237 stop)= | 0.000000596046447753906250000000 |
| P(N=239 stop)= | 0.000000849366188049316410000000 |
| P(N=241 stop)= | 0.000000834465026855468750000000 |
| P(N=243 stop)= | 0.000000625848770141601560000000 |
| P(N=245 stop)= | 0.000000596046447753906250000000 |
| P(N=247 stop)= | 0.000000596046447753906250000000 |
| P(N=249 stop)= | 0.000000342726707458496090000000 |
| P(N=251 stop)= | 0.000000506639480590820310000000 |
| P(N=253 stop)= | 0.000000372529029846191410000000 |
| P(N=255 stop)= | 0.000000387430191040039060000000 |
| P(N=257 stop)= | 0.000000312924385070800780000000 |
| P(N=259 stop)= | 0.000000387430191040039060000000 |
| P(N=261 stop)= | 0.000000298023223876953130000000 |
| P(N=263 stop)= | 0.000000327825546264648440000000 |
| P(N=265 stop)= | 0.000000149011611938476560000000 |
| P(N=267 stop)= | 0.000000223517417907714840000000 |
| P(N=269 stop)= | 0.000000178813934326171880000000 |
| P(N=271 stop)= | 0.000000178813934326171880000000 |
| P(N=273 stop)= | 0.000000149011611938476560000000 |
| P(N=275 stop)= | 0.000000149011611938476560000000 |
| P(N=277 stop)= | 0.000000059604644775390625000000 |
| P(N=279 stop)= | 0.000000089406967163085938000000 |
| P(N=281 stop)= | 0.000000104308128356933590000000 |
| P(N=283 stop)= | 0.000000119209289550781250000000 |
| P(N=285 stop)= | 0.000000119209289550781250000000 |
| P(N=287 stop)= | 0.000000089406967163085938000000 |
| P(N=289 stop)= | 0.000000044703483581542969000000 |
| P(N=291 stop)= | 0.000000044703483581542969000000 |
| P(N=293 stop)= | 0.000000059604644775390625000000 |
| P(N=295 stop)= | 0.000000074505805969238281000000 |
| P(N=299 stop)= | 0.000000059604644775390625000000 |
| P(N=301 stop)= | 0.000000014901161193847656000000 |
| P(N=303 stop)= | 0.000000044703483581542969000000 |
| P(N=305 stop)= | 0.000000059604644775390625000000 |
| P(N=307 stop)= | 0.000000014901161193847656000000 |
| P(N=311 stop)= | 0.000000074505805969238281000000 |
| P(N=313 stop)= | 0.000000014901161193847656000000 |
| P(N=315 stop)= | 0.000000029802322387695313000000 |

| | |
|-------------------|--|
| P(N=317 stop)= | 0.000000029802322387695313000000 |
| P(N=319 stop)= | 0.000000029802322387695313000000 |
| P(N=321 stop)= | 0.000000014901161193847656000000 |
| P(N=323 stop)= | 0.000000014901161193847656000000 |
| P(N=325 stop)= | 0.000000014901161193847656000000 |
| P(N=331 stop)= | 0.000000014901161193847656000000 |
| P(N=333 stop)= | 0.000000029802322387695313000000 |
| STOP ave= | 24.9980869740 varaince= 399.8367387564 |

6.1.2)The $P(\text{Head})=0.3, k=5, N=10,$

~~~~~ Gambler ruin I ~~~~~

rule : Tossina a coin , the gambler will get \$1 if coin outcome is head  
and the gamble will loss \$1 if coin outcome is tail.  
This game will stop when the money is gone  
and the tossing coin is independently.

The input data process:

1.  $P(\text{Head})=0.300000$
2. The money of the gambler own=\$5
3. The toal money of this game=\$10

$P(\text{loss all})= 0.9857376$

$P(\text{win all})= 0.0142624$

~~~~~ Win ~~~~~

| | |
|------------------------------|------------------------------------|
| $P(N1=5 \text{win all})=$ | 0.16998020133001090000000000000000 |
| $P(N1=7 \text{win all})=$ | 0.17841370339607265000000000000000 |
| $P(N1=9 \text{win all})=$ | 0.15053989249165478000000000000000 |
| $P(N1=11 \text{win all})=$ | 0.11835529993156660000000000000000 |
| $P(N1=13 \text{win all})=$ | 0.09149179582817471000000000000000 |
| $P(N1=15 \text{win all})=$ | 0.07013430707267000200000000000000 |
| $P(N1=17 \text{win all})=$ | 0.05293297183782851700000000000000 |
| $P(N1=19 \text{win all})=$ | 0.04023883778150417300000000000000 |
| $P(N1=21 \text{win all})=$ | 0.03039487637585084800000000000000 |
| $P(N1=23 \text{win all})=$ | 0.02352123786090781400000000000000 |
| $P(N1=25 \text{win all})=$ | 0.01776238461659013600000000000000 |
| $P(N1=27 \text{win all})=$ | 0.01352996181311936200000000000000 |
| $P(N1=29 \text{win all})=$ | 0.01034859241381832200000000000000 |
| $P(N1=31 \text{win all})=$ | 0.00774080981261786490000000000000 |
| $P(N1=33 \text{win all})=$ | 0.00598452673865233240000000000000 |
| $P(N1=35 \text{win all})=$ | 0.00432227428732623930000000000000 |
| $P(N1=37 \text{win all})=$ | 0.00351152136323507140000000000000 |
| $P(N1=39 \text{win all})=$ | 0.00255658815109676250000000000000 |
| $P(N1=41 \text{win all})=$ | 0.00198613570708416250000000000000 |
| $P(N1=43 \text{win all})=$ | 0.00150448996223103330000000000000 |
| $P(N1=45 \text{win all})=$ | 0.00108971043792150530000000000000 |
| $P(N1=47 \text{win all})=$ | 0.00085776823541088769000000000000 |
| $P(N1=49 \text{win all})=$ | 0.00069269225344387154000000000000 |
| $P(N1=51 \text{win all})=$ | 0.00050776536225297369000000000000 |
| $P(N1=53 \text{win all})=$ | 0.00038448076812570847000000000000 |
| $P(N1=55 \text{win all})=$ | 0.00026433052808642459000000000000 |
| $P(N1=57 \text{win all})=$ | 0.00022358392494266745000000000000 |
| $P(N1=59 \text{win all})=$ | 0.00016194162787903482000000000000 |
| $P(N1=61 \text{win all})=$ | 0.00013373244108720296000000000000 |
| $P(N1=63 \text{win all})=$ | 0.00010761282368735862000000000000 |
| $P(N1=65 \text{win all})=$ | 0.00008149320628751430600000000000 |
| $P(N1=67 \text{win all})=$ | 0.00005746315827965751700000000000 |

| | |
|---------------------|---------------------------------------|
| P(N1=69 win all)= | 0.000041791387839750922000000000 |
| P(N1=71 win all)= | 0.000031343540879813195000000000 |
| P(N1=73 win all)= | 0.000024030048007856779000000000 |
| P(N1=75 win all)= | 0.000025074832703850556000000000 |
| P(N1=77 win all)= | 0.000017761339831894143000000000 |
| P(N1=79 win all)= | 0.000012537416351925278000000000 |
| P(N1=81 win all)= | 0.000008358277567950185200000000 |
| P(N1=83 win all)= | 0.000006268708175962638900000000 |
| P(N1=85 win all)= | 0.000005223923479968865300000000 |
| P(N1=87 win all)= | 0.000004179138783975092600000000 |
| P(N1=89 win all)= | 0.000003134354087981319400000000 |
| P(N1=91 win all)= | 0.000002089569391987546300000000 |
| P(N1=97 win all)= | 0.000001044784695993773100000000 |
| P(N1=101 win all)= | 0.000001044784695993773100000000 |
| Win all ave= | 12.1589310565 varaince= 55.1374938102 |
| ~~~~~ Loss ~~~~~ | |
| P(N0=5 loss all)= | 0.170490494662656510000000000000 |
| P(N0=7 loss all)= | 0.178947340892631840000000000000 |
| P(N0=9 loss all)= | 0.150399651685596910000000000000 |
| P(N0=11 loss all)= | 0.118416406017142800000000000000 |
| P(N0=13 loss all)= | 0.091184903118707597000000000000 |
| P(N0=15 loss all)= | 0.069654762916325288000000000000 |
| P(N0=17 loss all)= | 0.052995606509392973000000000000 |
| P(N0=19 loss all)= | 0.040330540717990908000000000000 |
| P(N0=21 loss all)= | 0.030624535905932254000000000000 |
| P(N0=23 loss all)= | 0.023287206899762210000000000000 |
| P(N0=25 loss all)= | 0.017705856184046225000000000000 |
| P(N0=27 loss all)= | 0.013431001931937411000000000000 |
| P(N0=29 loss all)= | 0.010203195142488264000000000000 |
| P(N0=31 loss all)= | 0.007743350139797555000000000000 |
| P(N0=33 loss all)= | 0.005906572751862616100000000000 |
| P(N0=35 loss all)= | 0.004488469228068097500000000000 |
| P(N0=37 loss all)= | 0.003402450750758154900000000000 |
| P(N0=39 loss all)= | 0.002587778166765678700000000000 |
| P(N0=41 loss all)= | 0.001979645913714515400000000000 |
| P(N0=43 loss all)= | 0.001495607166972158900000000000 |
| P(N0=45 loss all)= | 0.001136070079135800000000000000 |
| P(N0=47 loss all)= | 0.000865691658641303200000000000 |
| P(N0=49 loss all)= | 0.000655266319645250640000000000 |
| P(N0=51 loss all)= | 0.000495058866866503210000000000 |
| P(N0=53 loss all)= | 0.000376014359352572640000000000 |
| P(N0=55 loss all)= | 0.000289652293139609370000000000 |
| P(N0=57 loss all)= | 0.000219329112319951610000000000 |
| P(N0=59 loss all)= | 0.000166934412250963250000000000 |
| P(N0=61 loss all)= | 0.000124426075091703190000000000 |
| P(N0=63 loss all)= | 0.000095704225659770740000000000 |
| P(N0=65 loss all)= | 0.000071865090631266791000000000 |

| | |
|----------------------|---------------------------------------|
| P(N0=67 loss all)= | 0.000054647097734966232000000000 |
| P(N0=69 loss all)= | 0.000042719971839284803000000000 |
| P(N0=71 loss all)= | 0.000032123121075187620000000000 |
| P(N0=73 loss all)= | 0.000023083296885558349000000000 |
| P(N0=75 loss all)= | 0.000018397100399295686000000000 |
| P(N0=77 loss all)= | 0.000013317868078701313000000000 |
| P(N0=79 loss all)= | 0.000011005003361287806000000000 |
| P(N0=81 loss all)= | 0.000007921183738069793600000000 |
| P(N0=83 loss all)= | 0.000006061821906423639900000000 |
| P(N0=85 loss all)= | 0.000004565262383391369600000000 |
| P(N0=87 loss all)= | 0.000003567556034703189700000000 |
| P(N0=89 loss all)= | 0.000002569849686015009400000000 |
| P(N0=91 loss all)= | 0.000002131463563106566800000000 |
| P(N0=93 loss all)= | 0.000001163990740136210200000000 |
| P(N0=95 loss all)= | 0.000001163990740136210200000000 |
| P(N0=97 loss all)= | 0.000000861655482957973750000000 |
| P(N0=99 loss all)= | 0.000000846538720099062010000000 |
| P(N0=101 loss all)= | 0.000000634904040074296430000000 |
| P(N0=103 loss all)= | 0.000000423269360049531000000000 |
| P(N0=105 loss all)= | 0.000000317452020037148210000000 |
| P(N0=107 loss all)= | 0.000000287218494319324580000000 |
| P(N0=109 loss all)= | 0.000000196517917165853660000000 |
| P(N0=111 loss all)= | 0.000000151167628589118210000000 |
| P(N0=113 loss all)= | 0.000000075583814294559106000000 |
| P(N0=115 loss all)= | 0.000000030233525717823638000000 |
| P(N0=117 loss all)= | 0.000000075583814294559106000000 |
| P(N0=119 loss all)= | 0.000000060467051435647277000000 |
| P(N0=121 loss all)= | 0.000000030233525717823638000000 |
| P(N0=123 loss all)= | 0.000000045350288576735461000000 |
| P(N0=125 loss all)= | 0.000000045350288576735461000000 |
| P(N0=127 loss all)= | 0.000000015116762858911819000000 |
| P(N0=129 loss all)= | 0.000000015116762858911819000000 |
| P(N0=131 loss all)= | 0.000000015116762858911819000000 |
| P(N0=141 loss all)= | 0.000000030233525717823638000000 |
| Los all ave= | 12.1453693523 varaince= 54.9990511846 |
| ~~~~~ Stop ~~~~~ | |
| P(N=5 stop)= | 0.170483216643333440000000000000 |
| P(N=7 stop)= | 0.178939729928970340000000000000 |
| P(N=9 stop)= | 0.150401651859283450000000000000 |
| P(N=11 stop)= | 0.118415534496307370000000000000 |
| P(N=13 stop)= | 0.091189280152320862000000000000 |
| P(N=15 stop)= | 0.069661602377891541000000000000 |
| P(N=17 stop)= | 0.052994713187217712000000000000 |
| P(N=19 stop)= | 0.040329232811927795000000000000 |
| P(N=21 stop)= | 0.030621260404586792000000000000 |
| P(N=23 stop)= | 0.023290544748306274000000000000 |
| P(N=25 stop)= | 0.017706662416458130000000000000 |

| | |
|-------------------|----------------------------------|
| P(N=27 stop)= | 0.013432413339614868000000000000 |
| P(N=29 stop)= | 0.010205268859863281000000000000 |
| P(N=31 stop)= | 0.007743313908576965300000000000 |
| P(N=33 stop)= | 0.005907684564590454100000000000 |
| P(N=35 stop)= | 0.004486098885536193800000000000 |
| P(N=37 stop)= | 0.003404006361961364700000000000 |
| P(N=39 stop)= | 0.002587333321571350100000000000 |
| P(N=41 stop)= | 0.001979738473892211900000000000 |
| P(N=43 stop)= | 0.001495733857154846200000000000 |
| P(N=45 stop)= | 0.001135408878326416000000000000 |
| P(N=47 stop)= | 0.000865578651428222660000000000 |
| P(N=49 stop)= | 0.000655800104141235350000000000 |
| P(N=51 stop)= | 0.000495240092277526860000000000 |
| P(N=53 stop)= | 0.000376135110855102540000000000 |
| P(N=55 stop)= | 0.000289291143417358400000000000 |
| P(N=57 stop)= | 0.000219389796257019040000000000 |
| P(N=59 stop)= | 0.000166863203048706050000000000 |
| P(N=61 stop)= | 0.000124558806419372560000000000 |
| P(N=63 stop)= | 0.000095874071121215820000000000 |
| P(N=65 stop)= | 0.000072002410888671875000000000 |
| P(N=67 stop)= | 0.000054687261581420898000000000 |
| P(N=69 stop)= | 0.000042706727981567383000000000 |
| P(N=71 stop)= | 0.000032112002372741699000000000 |
| P(N=73 stop)= | 0.000023096799850463867000000000 |
| P(N=75 stop)= | 0.000018492341041564941000000000 |
| P(N=77 stop)= | 0.000013381242752075195000000000 |
| P(N=79 stop)= | 0.000011026859283447266000000000 |
| P(N=81 stop)= | 0.000007927417755126953100000000 |
| P(N=83 stop)= | 0.000006064772605895996100000000 |
| P(N=85 stop)= | 0.000004574656486511230500000000 |
| P(N=87 stop)= | 0.000003576278686523437500000000 |
| P(N=89 stop)= | 0.000002577900886535644500000000 |
| P(N=91 stop)= | 0.000002130866050720214800000000 |
| P(N=93 stop)= | 0.000001147389411926269500000000 |
| P(N=95 stop)= | 0.000001147389411926269500000000 |
| P(N=97 stop)= | 0.000000864267349243164060000000 |
| P(N=99 stop)= | 0.000000834465026855468750000000 |
| P(N=101 stop)= | 0.000000640749931335449220000000 |
| P(N=103 stop)= | 0.000000461935997009277340000000 |
| P(N=105 stop)= | 0.000000312924385070800780000000 |
| P(N=107 stop)= | 0.000000283122062683105470000000 |
| P(N=109 stop)= | 0.000000193715095520019530000000 |
| P(N=111 stop)= | 0.000000149011611938476560000000 |
| P(N=113 stop)= | 0.000000074505805969238281000000 |
| P(N=115 stop)= | 0.000000029802322387695313000000 |
| P(N=117 stop)= | 0.000000074505805969238281000000 |
| P(N=119 stop)= | 0.000000059604644775390625000000 |
| P(N=121 stop)= | 0.000000029802322387695313000000 |
| P(N=123 stop)= | 0.000000044703483581542969000000 |
| P(N=125 stop)= | 0.000000044703483581542969000000 |

| | | |
|-------------------|----------------------------------|---------------|
| P(N=127 stop)= | 0.000000014901161193847656000000 | |
| P(N=129 stop)= | 0.000000014901161193847656000000 | |
| P(N=131 stop)= | 0.000000014901161193847656000000 | |
| P(N=141 stop)= | 0.000000029802322387695313000000 | |
| STOP ave= | 12.1455668360 varaince= | 55.0013948389 |

6.1.3) The $P(\text{Head})=0.24, k=12, N=20,$

~~~~~ Gambler ruin I ~~~~~

rule : Tossina a coin , the gambler will get \$1 if coin outcome is head  
and the gamble will loss \$1 if coin outcome is tail.  
This game will stop when the money is gone  
and the tossing coin is independently.

The input data process:

1.  $P(\text{Head})=0.240000$
2. The money of the gambler own=\$12
3. The toal money of this game=\$20

$P(\text{loss all})= 0.9999007$

$P(\text{win all})= 0.0000993$

~~~~~ Win ~~~~~

| | |
|------------------------------|---------------------------------------|
| $P(N1=8 \text{win all})=$ | 0.108542260921783510000000000000 |
| $P(N1=10 \text{win all})=$ | 0.164389731271580850000000000000 |
| $P(N1=12 \text{win all})=$ | 0.161237051493769710000000000000 |
| $P(N1=14 \text{win all})=$ | 0.136616123705149390000000000000 |
| $P(N1=16 \text{win all})=$ | 0.118150427863684130000000000000 |
| $P(N1=18 \text{win all})=$ | 0.085872992043236757000000000000 |
| $P(N1=20 \text{win all})=$ | 0.064254616423960367000000000000 |
| $P(N1=22 \text{win all})=$ | 0.048341089926437472000000000000 |
| $P(N1=24 \text{win all})=$ | 0.034529349947455337000000000000 |
| $P(N1=26 \text{win all})=$ | 0.023119651703948356000000000000 |
| $P(N1=28 \text{win all})=$ | 0.015613271280588500000000000000 |
| $P(N1=30 \text{win all})=$ | 0.011709953460441375000000000000 |
| $P(N1=32 \text{win all})=$ | 0.007206125206425461700000000000 |
| $P(N1=34 \text{win all})=$ | 0.004804083470950308100000000000 |
| $P(N1=36 \text{win all})=$ | 0.003903317820147125000000000000 |
| $P(N1=38 \text{win all})=$ | 0.003152679777811139500000000000 |
| $P(N1=40 \text{win all})=$ | 0.002251914127007956900000000000 |
| $P(N1=42 \text{win all})=$ | 0.001501276084671971200000000000 |
| $P(N1=44 \text{win all})=$ | 0.001351148476204774100000000000 |
| $P(N1=46 \text{win all})=$ | 0.001050893259270379900000000000 |
| $P(N1=48 \text{win all})=$ | 0.000900765650803182710000000000 |
| $P(N1=50 \text{win all})=$ | 0.000900765650803182710000000000 |
| $P(N1=52 \text{win all})=$ | 0.000300255216934394250000000000 |
| $P(N1=64 \text{win all})=$ | 0.000150127608467197130000000000 |
| Win all ave= | 15.3936936937 varaince= 41.3110713416 |

~~~~~ Loss ~~~~~

|                               |                                  |
|-------------------------------|----------------------------------|
| $P(N0=12   \text{loss all})=$ | 0.037155650463517570000000000000 |
| $P(N0=14   \text{loss all})=$ | 0.081274038052074088000000000000 |
| $P(N0=16   \text{loss all})=$ | 0.111164770551571910000000000000 |

|                      |                                  |
|----------------------|----------------------------------|
| P(N0=18  loss all)=  | 0.122574977158350530000000000000 |
| P(N0=20  loss all)=  | 0.119514362292993570000000000000 |
| P(N0=22  loss all)=  | 0.107636182973009100000000000000 |
| P(N0=24  loss all)=  | 0.092061329193618271000000000000 |
| P(N0=26  loss all)=  | 0.075718855310905372000000000000 |
| P(N0=28  loss all)=  | 0.060644253363783006000000000000 |
| P(N0=30  loss all)=  | 0.047511942342638142000000000000 |
| P(N0=32  loss all)=  | 0.036646084481011747000000000000 |
| P(N0=34  loss all)=  | 0.027865031495314690000000000000 |
| P(N0=36  loss all)=  | 0.020989594037620494000000000000 |
| P(N0=38  loss all)=  | 0.015719767054443803000000000000 |
| P(N0=40  loss all)=  | 0.011660794504764619000000000000 |
| P(N0=42  loss all)=  | 0.008617272967923273300000000000 |
| P(N0=44  loss all)=  | 0.006326081425374365000000000000 |
| P(N0=46  loss all)=  | 0.004640920656509593000000000000 |
| P(N0=48  loss all)=  | 0.003387027397595277400000000000 |
| P(N0=50  loss all)=  | 0.002464106878875496900000000000 |
| P(N0=52  loss all)=  | 0.001780582375216503700000000000 |
| P(N0=54  loss all)=  | 0.001298675693255555200000000000 |
| P(N0=56  loss all)=  | 0.000940699368692857960000000000 |
| P(N0=58  loss all)=  | 0.000669247774175163850000000000 |
| P(N0=60  loss all)=  | 0.000492085185340338200000000000 |
| P(N0=62  loss all)=  | 0.000350152438363312780000000000 |
| P(N0=64  loss all)=  | 0.000253479010219679350000000000 |
| P(N0=66  loss all)=  | 0.000183123644986737620000000000 |
| P(N0=68  loss all)=  | 0.000130308687480797020000000000 |
| P(N0=70  loss all)=  | 0.000093752510629196485000000000 |
| P(N0=72  loss all)=  | 0.000066957563226351899000000000 |
| P(N0=74  loss all)=  | 0.000047807670338334494000000000 |
| P(N0=76  loss all)=  | 0.000033784285740961437000000000 |
| P(N0=78  loss all)=  | 0.000024842701513093394000000000 |
| P(N0=80  loss all)=  | 0.000017749044692318076000000000 |
| P(N0=82  loss all)=  | 0.000012115846628761204000000000 |
| P(N0=84  loss all)=  | 0.000009552592483439030500000000 |
| P(N0=86  loss all)=  | 0.000006274011599887413400000000 |
| P(N0=88  loss all)=  | 0.000004232349867857542800000000 |
| P(N0=90  loss all)=  | 0.000003218970322032497400000000 |
| P(N0=92  loss all)=  | 0.000002637767347221074100000000 |
| P(N0=94  loss all)=  | 0.000001743608924434269200000000 |
| P(N0=96  loss all)=  | 0.000001013379545825045400000000 |
| P(N0=98  loss all)=  | 0.000000596105615191203220000000 |
| P(N0=100  loss all)= | 0.000000760034659368784030000000 |
| P(N0=102  loss all)= | 0.000000432176571013622300000000 |
| P(N0=104  loss all)= | 0.000000253344886456261340000000 |
| P(N0=106  loss all)= | 0.000000223539605696701190000000 |
| P(N0=108  loss all)= | 0.000000178831684557360960000000 |
| P(N0=110  loss all)= | 0.000000223539605696701190000000 |
| P(N0=112  loss all)= | 0.000000059610561519120314000000 |
| P(N0=114  loss all)= | 0.000000029805280759560157000000 |
| P(N0=116  loss all)= | 0.000000044707921139340239000000 |

P(N0=118| loss all)= 0.000000044707921139340239000000  
 P(N0=120| loss all)= 0.000000044707921139340239000000  
 P(N0=130| loss all)= 0.000000014902640379780079000000  
 Los all ave= 23.0748322823 varaince= 62.1739814914

~~~~~ Stop ~~~~~

P(N=8 | stop)= 0.000010773539543151855000000000
 P(N=10 | stop)= 0.000016316771507263184000000000
 P(N=12 | stop)= 0.037167966365814209000000000000
 P(N=14 | stop)= 0.081279531121253967000000000000
 P(N=16 | stop)= 0.111165463924407960000000000000
 P(N=18 | stop)= 0.122571334242820740000000000000
 P(N=20 | stop)= 0.119508877396583560000000000000
 P(N=22 | stop)= 0.107630297541618350000000000000
 P(N=24 | stop)= 0.092055618762969971000000000000
 P(N=26 | stop)= 0.075713634490966797000000000000
 P(N=28 | stop)= 0.060639783740043640000000000000
 P(N=30 | stop)= 0.047508388757705688000000000000
 P(N=32 | stop)= 0.036643162369728088000000000000
 P(N=34 | stop)= 0.027862742543220520000000000000
 P(N=36 | stop)= 0.020987898111343384000000000000
 P(N=38 | stop)= 0.015718519687652588000000000000
 P(N=40 | stop)= 0.011659860610961914000000000000
 P(N=42 | stop)= 0.008616566658020019500000000000
 P(N=44 | stop)= 0.006325587630271911600000000000
 P(N=46 | stop)= 0.004640564322471618700000000000
 P(N=48 | stop)= 0.003386780619621276900000000000
 P(N=50 | stop)= 0.002463951706886291500000000000
 P(N=52 | stop)= 0.001780435442924499500000000000
 P(N=54 | stop)= 0.001298546791076660200000000000
 P(N=56 | stop)= 0.000940605998039245610000000000
 P(N=58 | stop)= 0.000669181346893310550000000000
 P(N=60 | stop)= 0.000492036342620849610000000000
 P(N=62 | stop)= 0.000350117683410644530000000000
 P(N=64 | stop)= 0.000253468751907348630000000000
 P(N=66 | stop)= 0.000183105468750000000000000000
 P(N=68 | stop)= 0.000130295753479003910000000000
 P(N=70 | stop)= 0.000093743205070495605000000000
 P(N=72 | stop)= 0.000066950917243957520000000000
 P(N=74 | stop)= 0.000047802925109863281000000000
 P(N=76 | stop)= 0.000033780932426452637000000000
 P(N=78 | stop)= 0.000024840235710144043000000000
 P(N=80 | stop)= 0.000017747282981872559000000000
 P(N=82 | stop)= 0.000012114644050598145000000000
 P(N=84 | stop)= 0.000009551644325256347700000000
 P(N=86 | stop)= 0.000006273388862609863300000000
 P(N=88 | stop)= 0.000004231929779052734400000000
 P(N=90 | stop)= 0.000003233551979064941400000000

| | |
|-------------------|---------------------------------------|
| P(N=92 stop)= | 0.000002637505531311035200000000 |
| P(N=94 stop)= | 0.000001743435859680175800000000 |
| P(N=96 stop)= | 0.000001013278961181640600000000 |
| P(N=98 stop)= | 0.000000596046447753906250000000 |
| P(N=100 stop)= | 0.000000759959220886230470000000 |
| P(N=102 stop)= | 0.000000432133674621582030000000 |
| P(N=104 stop)= | 0.000000253319740295410160000000 |
| P(N=106 stop)= | 0.000000223517417907714840000000 |
| P(N=108 stop)= | 0.000000178813934326171880000000 |
| P(N=110 stop)= | 0.000000223517417907714840000000 |
| P(N=112 stop)= | 0.000000059604644775390625000000 |
| P(N=114 stop)= | 0.000000029802322387695313000000 |
| P(N=116 stop)= | 0.000000044703483581542969000000 |
| P(N=118 stop)= | 0.000000044703483581542969000000 |
| P(N=120 stop)= | 0.000000044703483581542969000000 |
| P(N=130 stop)= | 0.000000014901161193847656000000 |
| STOP ave= | 23.0740709901 varaince= 62.1778315073 |

6.1.4)The $P(\text{Head})=0.36, k=24, N=40,$

~~~~~ Gambler ruin I ~~~~~

rule : Tossina a coin , the gambler will get \$1 if coin outcome is head  
and the gamble will loss \$1 if coin outcome is tail.  
This game will stop when the money is gone  
and the tossing coin is independently.

The input data process:

1.  $P(\text{Head})=0.360000$
2. The money of the gambler own=\$24
3. The toal money of this game=\$40

$P(\text{loss all})= 0.9998973$

$P(\text{win all})= 0.0001027$

~~~~~ Win ~~~~~

| | |
|------------------------------|----------------------------------|
| $P(N1=18 \text{win all})=$ | 0.003770848440899202400000000000 |
| $P(N1=20 \text{win all})=$ | 0.003770848440899202400000000000 |
| $P(N1=22 \text{win all})=$ | 0.010442349528643945000000000000 |
| $P(N1=24 \text{win all})=$ | 0.014938361131254532000000000000 |
| $P(N1=26 \text{win all})=$ | 0.016968817984046411000000000000 |
| $P(N1=28 \text{win all})=$ | 0.026250906453952141000000000000 |
| $P(N1=30 \text{win all})=$ | 0.036113125453226973000000000000 |
| $P(N1=32 \text{win all})=$ | 0.030456852791878174000000000000 |
| $P(N1=34 \text{win all})=$ | 0.031036983321247279000000000000 |
| $P(N1=36 \text{win all})=$ | 0.040319071791153009000000000000 |
| $P(N1=38 \text{win all})=$ | 0.037418419144307470000000000000 |
| $P(N1=40 \text{win all})=$ | 0.033937635968092822000000000000 |
| $P(N1=42 \text{win all})=$ | 0.050326323422770124000000000000 |
| $P(N1=44 \text{win all})=$ | 0.027701232777374910000000000000 |
| $P(N1=46 \text{win all})=$ | 0.044089920232052209000000000000 |
| $P(N1=48 \text{win all})=$ | 0.035387962291515591000000000000 |
| $P(N1=50 \text{win all})=$ | 0.046410442349528645000000000000 |
| $P(N1=52 \text{win all})=$ | 0.033067440174039162000000000000 |
| $P(N1=54 \text{win all})=$ | 0.031327048585931834000000000000 |
| $P(N1=56 \text{win all})=$ | 0.036403190717911531000000000000 |
| $P(N1=58 \text{win all})=$ | 0.035242929659173312000000000000 |
| $P(N1=60 \text{win all})=$ | 0.029876722262509064000000000000 |
| $P(N1=62 \text{win all})=$ | 0.029296591733139955000000000000 |
| $P(N1=64 \text{win all})=$ | 0.024220449601160262000000000000 |
| $P(N1=66 \text{win all})=$ | 0.020739666424945614000000000000 |
| $P(N1=68 \text{win all})=$ | 0.022625090645395213000000000000 |
| $P(N1=70 \text{win all})=$ | 0.020014503263234229000000000000 |
| $P(N1=72 \text{win all})=$ | 0.016678752719361856000000000000 |
| $P(N1=74 \text{win all})=$ | 0.018854242204496011000000000000 |
| $P(N1=76 \text{win all})=$ | 0.013778100072516316000000000000 |
| $P(N1=78 \text{win all})=$ | 0.014648295866569978000000000000 |
| $P(N1=80 \text{win all})=$ | 0.013778100072516316000000000000 |

| | |
|---------------------|--|
| P(N1=82 win all)= | 0.010152284263959390000000000000 |
| P(N1=84 win all)= | 0.012907904278462654000000000000 |
| P(N1=86 win all)= | 0.008701957940536620600000000000 |
| P(N1=88 win all)= | 0.008992023205221175200000000000 |
| P(N1=90 win all)= | 0.010152284263959390000000000000 |
| P(N1=92 win all)= | 0.008992023205221175200000000000 |
| P(N1=94 win all)= | 0.006526468455402465400000000000 |
| P(N1=96 win all)= | 0.007251631617113851000000000000 |
| P(N1=98 win all)= | 0.006526468455402465400000000000 |
| P(N1=100 win all)= | 0.005801305293691080700000000000 |
| P(N1=102 win all)= | 0.006816533720087019100000000000 |
| P(N1=104 win all)= | 0.005801305293691080700000000000 |
| P(N1=106 win all)= | 0.005076142131979695000000000000 |
| P(N1=108 win all)= | 0.004205946337926033000000000000 |
| P(N1=110 win all)= | 0.004205946337926033000000000000 |
| P(N1=112 win all)= | 0.003915881073241479300000000000 |
| P(N1=114 win all)= | 0.002175489485134155100000000000 |
| P(N1=116 win all)= | 0.003480783176214648200000000000 |
| P(N1=118 win all)= | 0.002755620014503263000000000000 |
| P(N1=120 win all)= | 0.002900652646845540300000000000 |
| P(N1=122 win all)= | 0.003190717911530094100000000000 |
| P(N1=124 win all)= | 0.002030456852791878300000000000 |
| P(N1=126 win all)= | 0.001885424220449601200000000000 |
| P(N1=128 win all)= | 0.002465554749818709300000000000 |
| P(N1=130 win all)= | 0.002030456852791878300000000000 |
| P(N1=132 win all)= | 0.001305293691080493100000000000 |
| P(N1=134 win all)= | 0.001015228426395939100000000000 |
| P(N1=136 win all)= | 0.000290065264684554000000000000 |
| P(N1=138 win all)= | 0.000435097897026831030000000000 |
| P(N1=140 win all)= | 0.001305293691080493100000000000 |
| P(N1=142 win all)= | 0.000870195794053662060000000000 |
| P(N1=144 win all)= | 0.000435097897026831030000000000 |
| P(N1=146 win all)= | 0.000435097897026831030000000000 |
| P(N1=148 win all)= | 0.000435097897026831030000000000 |
| P(N1=150 win all)= | 0.000725163161711385080000000000 |
| P(N1=154 win all)= | 0.000290065264684554000000000000 |
| P(N1=156 win all)= | 0.000290065264684554000000000000 |
| P(N1=158 win all)= | 0.000435097897026831030000000000 |
| P(N1=162 win all)= | 0.000435097897026831030000000000 |
| P(N1=170 win all)= | 0.000435097897026831030000000000 |
| P(N1=174 win all)= | 0.000725163161711385080000000000 |
| P(N1=176 win all)= | 0.000435097897026831030000000000 |
| P(N1=192 win all)= | 0.000435097897026831030000000000 |
| Win all ave= | 56.8107951248 varaince= 605.9473704067 |
| ~~~~~ Loss ~~~~~ | |
| P(N0=24 loss all)= | 0.000020938282749944343000000000 |
| P(N0=26 loss all)= | 0.000126657982271727380000000000 |

| | |
|----------------------|----------------------------------|
| P(N0=28 loss all)= | 0.000384832224520863160000000000 |
| P(N0=30 loss all)= | 0.000893818778998869640000000000 |
| P(N0=32 loss all)= | 0.001692066591965431000000000000 |
| P(N0=34 loss all)= | 0.002845043190908451600000000000 |
| P(N0=36 loss all)= | 0.004328069717298459700000000000 |
| P(N0=38 loss all)= | 0.006124976749937099300000000000 |
| P(N0=40 loss all)= | 0.008185557118301550400000000000 |
| P(N0=42 loss all)= | 0.010400782725168617000000000000 |
| P(N0=44 loss all)= | 0.012721728031557465000000000000 |
| P(N0=46 loss all)= | 0.015041823884482436000000000000 |
| P(N0=48 loss all)= | 0.017353648743153871000000000000 |
| P(N0=50 loss all)= | 0.019524434521437067000000000000 |
| P(N0=52 loss all)= | 0.021667948372722116000000000000 |
| P(N0=54 loss all)= | 0.023449177773009911000000000000 |
| P(N0=56 loss all)= | 0.025093630262921197000000000000 |
| P(N0=58 loss all)= | 0.026485899392907533000000000000 |
| P(N0=60 loss all)= | 0.027603318167906520000000000000 |
| P(N0=62 loss all)= | 0.028519178028889137000000000000 |
| P(N0=64 loss all)= | 0.029133064634809747000000000000 |
| P(N0=66 loss all)= | 0.029611455961895843000000000000 |
| P(N0=68 loss all)= | 0.029774446708113737000000000000 |
| P(N0=70 loss all)= | 0.029743300081104922000000000000 |
| P(N0=72 loss all)= | 0.029596612880316522000000000000 |
| P(N0=74 loss all)= | 0.029250065672439509000000000000 |
| P(N0=76 loss all)= | 0.028746235449514157000000000000 |
| P(N0=78 loss all)= | 0.028098117359268548000000000000 |
| P(N0=80 loss all)= | 0.027565972020880639000000000000 |
| P(N0=82 loss all)= | 0.026738932206296362000000000000 |
| P(N0=84 loss all)= | 0.025837975037662456000000000000 |
| P(N0=86 loss all)= | 0.024938716775956306000000000000 |
| P(N0=88 loss all)= | 0.023931726951261296000000000000 |
| P(N0=90 loss all)= | 0.022990398389054725000000000000 |
| P(N0=92 loss all)= | 0.021987894274756677000000000000 |
| P(N0=94 loss all)= | 0.020982841800067001000000000000 |
| P(N0=96 loss all)= | 0.020003928647756967000000000000 |
| P(N0=98 loss all)= | 0.019010977159254448000000000000 |
| P(N0=100 loss all)= | 0.018016371471901219000000000000 |
| P(N0=102 loss all)= | 0.017138364449484335000000000000 |
| P(N0=104 loss all)= | 0.016131583262482208000000000000 |
| P(N0=106 loss all)= | 0.015290609430551881000000000000 |
| P(N0=108 loss all)= | 0.014420262392002238000000000000 |
| P(N0=110 loss all)= | 0.013585964966244136000000000000 |
| P(N0=112 loss all)= | 0.012726422379647310000000000000 |
| P(N0=114 loss all)= | 0.012001287175343543000000000000 |
| P(N0=116 loss all)= | 0.011235482523620135000000000000 |
| P(N0=118 loss all)= | 0.010507024018922605000000000000 |
| P(N0=120 loss all)= | 0.009873808621025711300000000000 |
| P(N0=122 loss all)= | 0.009210579200738505700000000000 |
| P(N0=124 loss all)= | 0.008622936236043982400000000000 |
| P(N0=126 loss all)= | 0.007999795058174819600000000000 |

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|----------------------|----------------------------------|
| P(N0=128 loss all)= | 0.007493893361012997900000000000 |
| P(N0=130 loss all)= | 0.006969393103799979000000000000 |
| P(N0=132 loss all)= | 0.006517111293708833200000000000 |
| P(N0=134 loss all)= | 0.006055038414744581100000000000 |
| P(N0=136 loss all)= | 0.005620192754701430200000000000 |
| P(N0=138 loss all)= | 0.005239727019038740600000000000 |
| P(N0=140 loss all)= | 0.004882211429593072100000000000 |
| P(N0=142 loss all)= | 0.004525366461303095000000000000 |
| P(N0=144 loss all)= | 0.004203840873879572400000000000 |
| P(N0=146 loss all)= | 0.003872643439121734500000000000 |
| P(N0=148 loss all)= | 0.003627210998830749500000000000 |
| P(N0=150 loss all)= | 0.003335952779567467100000000000 |
| P(N0=152 loss all)= | 0.003095453130443907200000000000 |
| P(N0=154 loss all)= | 0.002869260065975113200000000000 |
| P(N0=156 loss all)= | 0.002657626931931013900000000000 |
| P(N0=158 loss all)= | 0.002438184787096188100000000000 |
| P(N0=160 loss all)= | 0.002273241788180612000000000000 |
| P(N0=162 loss all)= | 0.002107941124648667200000000000 |
| P(N0=164 loss all)= | 0.001952774291913848300000000000 |
| P(N0=166 loss all)= | 0.001802078266883643800000000000 |
| P(N0=168 loss all)= | 0.001672260913833989000000000000 |
| P(N0=170 loss all)= | 0.001536855051153565900000000000 |
| P(N0=172 loss all)= | 0.001422193736222554000000000000 |
| P(N0=174 loss all)= | 0.001315863026314473600000000000 |
| P(N0=176 loss all)= | 0.001209904883715111200000000000 |
| P(N0=178 loss all)= | 0.001124139889248257400000000000 |
| P(N0=180 loss all)= | 0.001034768443233014500000000000 |
| P(N0=182 loss all)= | 0.000948750102996232470000000000 |
| P(N0=184 loss all)= | 0.000888111047829311820000000000 |
| P(N0=186 loss all)= | 0.000810453118000158840000000000 |
| P(N0=188 loss all)= | 0.000749575619755658730000000000 |
| P(N0=190 loss all)= | 0.000684927740346933820000000000 |
| P(N0=192 loss all)= | 0.000624989111720402730000000000 |
| P(N0=194 loss all)= | 0.000584677328917129130000000000 |
| P(N0=196 loss all)= | 0.000542741152647845550000000000 |
| P(N0=198 loss all)= | 0.000498316226756326660000000000 |
| P(N0=200 loss all)= | 0.000454681143559289580000000000 |
| P(N0=202 loss all)= | 0.000417707563842128120000000000 |
| P(N0=204 loss all)= | 0.000383535690286525000000000000 |
| P(N0=206 loss all)= | 0.000352269841738921240000000000 |
| P(N0=208 loss all)= | 0.000332687703992709960000000000 |
| P(N0=210 loss all)= | 0.000304938890839402940000000000 |
| P(N0=212 loss all)= | 0.000283166057317930570000000000 |
| P(N0=214 loss all)= | 0.000255148995702346650000000000 |
| P(N0=216 loss all)= | 0.000227742944473060110000000000 |
| P(N0=218 loss all)= | 0.000211707647505842940000000000 |
| P(N0=220 loss all)= | 0.000198563472854276450000000000 |
| P(N0=222 loss all)= | 0.000178072270874793550000000000 |
| P(N0=224 loss all)= | 0.000164033934682304190000000000 |
| P(N0=226 loss all)= | 0.000154749557349054830000000000 |

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| P(N0=228 loss all)= | 0.000141903436544462660000000000 |
| P(N0=230 loss all)= | 0.000130458168820649670000000000 |
| P(N0=232 loss all)= | 0.000117403410323175460000000000 |
| P(N0=234 loss all)= | 0.000108327670682808130000000000 |
| P(N0=236 loss all)= | 0.000098447185655610190000000000 |
| P(N0=238 loss all)= | 0.000094468166798503331000000000 |
| P(N0=240 loss all)= | 0.000085168886772905278000000000 |
| P(N0=242 loss all)= | 0.000076137855209584091000000000 |
| P(N0=244 loss all)= | 0.000072605917122938669000000000 |
| P(N0=246 loss all)= | 0.000066123245951247721000000000 |
| P(N0=248 loss all)= | 0.000060907303629197527000000000 |
| P(N0=250 loss all)= | 0.000054037162456439988000000000 |
| P(N0=252 loss all)= | 0.000052979071299681236000000000 |
| P(N0=254 loss all)= | 0.000046228151665713414000000000 |
| P(N0=256 loss all)= | 0.000042338548962698846000000000 |
| P(N0=258 loss all)= | 0.000037614395488156244000000000 |
| P(N0=260 loss all)= | 0.000033382030861121228000000000 |
| P(N0=262 loss all)= | 0.000033262809322331511000000000 |
| P(N0=264 loss all)= | 0.000031936469703295891000000000 |
| P(N0=266 loss all)= | 0.000028762196233019631000000000 |
| P(N0=268 loss all)= | 0.000026899359689430277000000000 |
| P(N0=270 loss all)= | 0.000022950146217020844000000000 |
| P(N0=272 loss all)= | 0.000020521007364180326000000000 |
| P(N0=274 loss all)= | 0.000018345214281267959000000000 |
| P(N0=276 loss all)= | 0.000018896613898170410000000000 |
| P(N0=278 loss all)= | 0.000018598560051196114000000000 |
| P(N0=280 loss all)= | 0.000014619541194089253000000000 |
| P(N0=282 loss all)= | 0.000015007011195155838000000000 |
| P(N0=284 loss all)= | 0.000012950439651033191000000000 |
| P(N0=286 loss all)= | 0.000012562969649966605000000000 |
| P(N0=288 loss all)= | 0.000011400559646766849000000000 |
| P(N0=290 loss all)= | 0.000011013089645700263000000000 |
| P(N0=292 loss all)= | 0.000009090642332716048300000000 |
| P(N0=294 loss all)= | 0.000008181578099444444100000000 |
| P(N0=296 loss all)= | 0.000007794108098377858000000000 |
| P(N0=298 loss all)= | 0.000007779205406029143300000000 |
| P(N0=300 loss all)= | 0.000005871660785393644600000000 |
| P(N0=302 loss all)= | 0.000005290455783793766200000000 |
| P(N0=304 loss all)= | 0.000005797147323650070400000000 |
| P(N0=306 loss all)= | 0.000004739056166891317200000000 |
| P(N0=308 loss all)= | 0.000004291975396429872500000000 |
| P(N0=310 loss all)= | 0.000004768861551588747400000000 |
| P(N0=312 loss all)= | 0.000003517035394296701100000000 |
| P(N0=314 loss all)= | 0.000003025246546789111500000000 |
| P(N0=316 loss all)= | 0.000003561743471342845400000000 |
| P(N0=318 loss all)= | 0.000002816608853907103800000000 |
| P(N0=320 loss all)= | 0.000002786803469209674000000000 |
| P(N0=322 loss all)= | 0.000002786803469209674000000000 |
| P(N0=324 loss all)= | 0.000002369528083445658600000000 |
| P(N0=326 loss all)= | 0.000002339722698748228900000000 |

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| P(N0=328 loss all)= | 0.000002265209237004654700000000 |
| P(N0=330 loss all)= | 0.000001758517697148350500000000 |
| P(N0=332 loss all)= | 0.000001549880004266342800000000 |
| P(N0=334 loss all)= | 0.000001132604618502327400000000 |
| P(N0=336 loss all)= | 0.000001505171927220198200000000 |
| P(N0=338 loss all)= | 0.000001028285772061323500000000 |
| P(N0=340 loss all)= | 0.000000998480387363893990000000 |
| P(N0=342 loss all)= | 0.000000849453463876745530000000 |
| P(N0=344 loss all)= | 0.000001162410003199757100000000 |
| P(N0=346 loss all)= | 0.000000760037309784456540000000 |
| P(N0=348 loss all)= | 0.000000968675002666464250000000 |
| P(N0=350 loss all)= | 0.000000670621155692167540000000 |
| P(N0=352 loss all)= | 0.000000834550771528030770000000 |
| P(N0=354 loss all)= | 0.000000551399616902448820000000 |
| P(N0=356 loss all)= | 0.000000804745386830601030000000 |
| P(N0=358 loss all)= | 0.000000342761924020441210000000 |
| P(N0=360 loss all)= | 0.000000387470001066585700000000 |
| P(N0=362 loss all)= | 0.000000685523848040882410000000 |
| P(N0=364 loss all)= | 0.000000387470001066585700000000 |
| P(N0=366 loss all)= | 0.000000387470001066585700000000 |
| P(N0=368 loss all)= | 0.000000372567308717870830000000 |
| P(N0=370 loss all)= | 0.000000372567308717870830000000 |
| P(N0=372 loss all)= | 0.000000253345769928152160000000 |
| P(N0=374 loss all)= | 0.000000238443077579437350000000 |
| P(N0=376 loss all)= | 0.000000312956539323011520000000 |
| P(N0=378 loss all)= | 0.000000476886155158874690000000 |
| P(N0=380 loss all)= | 0.000000119221538789718670000000 |
| P(N0=382 loss all)= | 0.000000089416154092289005000000 |
| P(N0=384 loss all)= | 0.000000208637692882007690000000 |
| P(N0=386 loss all)= | 0.000000163929615835863170000000 |
| P(N0=388 loss all)= | 0.000000178832308184578010000000 |
| P(N0=390 loss all)= | 0.000000163929615835863170000000 |
| P(N0=392 loss all)= | 0.000000104318846441003850000000 |
| P(N0=394 loss all)= | 0.000000119221538789718670000000 |
| P(N0=396 loss all)= | 0.000000134124231138433510000000 |
| P(N0=398 loss all)= | 0.000000223540385230722510000000 |
| P(N0=400 loss all)= | 0.000000178832308184578010000000 |
| P(N0=402 loss all)= | 0.000000089416154092289005000000 |
| P(N0=404 loss all)= | 0.000000089416154092289005000000 |
| P(N0=406 loss all)= | 0.000000089416154092289005000000 |
| P(N0=408 loss all)= | 0.000000044708077046144503000000 |
| P(N0=412 loss all)= | 0.000000074513461743574177000000 |
| P(N0=416 loss all)= | 0.000000029805384697429668000000 |
| P(N0=424 loss all)= | 0.000000074513461743574177000000 |
| P(N0=426 loss all)= | 0.000000044708077046144503000000 |
| P(N0=432 loss all)= | 0.000000074513461743574177000000 |
| P(N0=434 loss all)= | 0.000000029805384697429668000000 |
| P(N0=436 loss all)= | 0.000000029805384697429668000000 |
| P(N0=438 loss all)= | 0.000000044708077046144503000000 |
| P(N0=450 loss all)= | 0.000000044708077046144503000000 |

P(N0=492 | loss all)= 0.000000044708077046144503000000
Los all ave= 85.7148086966 varaince= 1006.4216449910

~~~~~ Stop ~~~~~

P(N=18 | stop )= 0.000000387430191040039060000000  
P(N=20 | stop )= 0.000000387430191040039060000000  
P(N=22 | stop )= 0.000001072883605957031300000000  
P(N=24 | stop )= 0.000022470951080322266000000000  
P(N=26 | stop )= 0.000128388404846191410000000000  
P(N=28 | stop )= 0.000387489795684814450000000000  
P(N=30 | stop )= 0.000897437334060668950000000000  
P(N=32 | stop )= 0.001695021986961364700000000000  
P(N=34 | stop )= 0.002847939729690551800000000000  
P(N=36 | stop )= 0.004331767559051513700000000000  
P(N=38 | stop )= 0.006128191947937011700000000000  
P(N=40 | stop )= 0.008188202977180481000000000000  
P(N=42 | stop )= 0.010404884815216064000000000000  
P(N=44 | stop )= 0.012723267078399658000000000000  
P(N=46 | stop )= 0.015044808387756348000000000000  
P(N=48 | stop )= 0.017355501651763916000000000000  
P(N=50 | stop )= 0.019527196884155273000000000000  
P(N=52 | stop )= 0.021669119596481323000000000000  
P(N=54 | stop )= 0.023449987173080444000000000000  
P(N=56 | stop )= 0.025094792246818542000000000000  
P(N=58 | stop )= 0.026486799120903015000000000000  
P(N=60 | stop )= 0.027603551745414734000000000000  
P(N=62 | stop )= 0.028519257903099060000000000000  
P(N=64 | stop )= 0.029132559895515442000000000000  
P(N=66 | stop )= 0.029610544443130493000000000000  
P(N=68 | stop )= 0.029773712158203125000000000000  
P(N=70 | stop )= 0.029742300510406494000000000000  
P(N=72 | stop )= 0.029595285654067993000000000000  
P(N=74 | stop )= 0.029248997569084167000000000000  
P(N=76 | stop )= 0.028744697570800781000000000000  
P(N=78 | stop )= 0.028096735477447510000000000000  
P(N=80 | stop )= 0.027564555406570435000000000000  
P(N=82 | stop )= 0.026737228035926819000000000000  
P(N=84 | stop )= 0.025836646556854248000000000000  
P(N=86 | stop )= 0.024937048554420471000000000000  
P(N=88 | stop )= 0.023930191993713379000000000000  
P(N=90 | stop )= 0.022989079356193542000000000000  
P(N=92 | stop )= 0.021986559033393860000000000000  
P(N=94 | stop )= 0.020981356501579285000000000000  
P(N=96 | stop )= 0.020002618432044983000000000000  
P(N=98 | stop )= 0.019009694457054138000000000000  
P(N=100 | stop )= 0.018015116453170776000000000000  
P(N=102 | stop )= 0.017137303948402405000000000000  
P(N=104 | stop )= 0.016130521893501282000000000000

|                   |                                  |
|-------------------|----------------------------------|
| P(N=106   stop )= | 0.015289559960365295000000000000 |
| P(N=108   stop )= | 0.014419212937355042000000000000 |
| P(N=110   stop )= | 0.013585001230239868000000000000 |
| P(N=112   stop )= | 0.012725517153739929000000000000 |
| P(N=114   stop )= | 0.012000277638435364000000000000 |
| P(N=116   stop )= | 0.011234685778617859000000000000 |
| P(N=118   stop )= | 0.010506227612495422000000000000 |
| P(N=120   stop )= | 0.009873092174530029300000000000 |
| P(N=122   stop )= | 0.009209960699081420900000000000 |
| P(N=124   stop )= | 0.008622258901596069300000000000 |
| P(N=126   stop )= | 0.007999166846275329600000000000 |
| P(N=128   stop )= | 0.007493376731872558600000000000 |
| P(N=130   stop )= | 0.006968885660171508800000000000 |
| P(N=132   stop )= | 0.006516575813293457000000000000 |
| P(N=134   stop )= | 0.006054520606994628900000000000 |
| P(N=136   stop )= | 0.005619645118713378900000000000 |
| P(N=138   stop )= | 0.005239233374595642100000000000 |
| P(N=140   stop )= | 0.004881843924522399900000000000 |
| P(N=142   stop )= | 0.004524990916252136200000000000 |
| P(N=144   stop )= | 0.004203453660011291500000000000 |
| P(N=146   stop )= | 0.003872290253639221200000000000 |
| P(N=148   stop )= | 0.003626883029937744100000000000 |
| P(N=150   stop )= | 0.003335684537887573200000000000 |
| P(N=152   stop )= | 0.003095135092735290500000000000 |
| P(N=154   stop )= | 0.002868995070457458500000000000 |
| P(N=156   stop )= | 0.002657383680343627900000000000 |
| P(N=158   stop )= | 0.002437978982925415000000000000 |
| P(N=160   stop )= | 0.002273008227348327600000000000 |
| P(N=162   stop )= | 0.002107769250869751000000000000 |
| P(N=164   stop )= | 0.001952573657035827600000000000 |
| P(N=166   stop )= | 0.001801893115043640100000000000 |
| P(N=168   stop )= | 0.001672089099884033200000000000 |
| P(N=170   stop )= | 0.001536741852760314900000000000 |
| P(N=172   stop )= | 0.001422047615051269500000000000 |
| P(N=174   stop )= | 0.001315802335739135700000000000 |
| P(N=176   stop )= | 0.001209825277328491200000000000 |
| P(N=178   stop )= | 0.001124024391174316400000000000 |
| P(N=180   stop )= | 0.001034662127494812000000000000 |
| P(N=182   stop )= | 0.000948652625083923340000000000 |
| P(N=184   stop )= | 0.000888019800186157230000000000 |
| P(N=186   stop )= | 0.000810369849205017090000000000 |
| P(N=188   stop )= | 0.000749498605728149410000000000 |
| P(N=190   stop )= | 0.000684857368469238280000000000 |
| P(N=192   stop )= | 0.000624969601631164550000000000 |
| P(N=194   stop )= | 0.000584617257118225100000000000 |
| P(N=196   stop )= | 0.000542685389518737790000000000 |
| P(N=198   stop )= | 0.000498265027999877930000000000 |
| P(N=200   stop )= | 0.000454634428024291990000000000 |
| P(N=202   stop )= | 0.000417664647102355960000000000 |
| P(N=204   stop )= | 0.000383496284484863280000000000 |

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|-------------------|----------------------------------|
| P(N=206   stop )= | 0.000352233648300170900000000000 |
| P(N=208   stop )= | 0.000332653522491455080000000000 |
| P(N=210   stop )= | 0.000304907560348510740000000000 |
| P(N=212   stop )= | 0.000283136963844299320000000000 |
| P(N=214   stop )= | 0.000255122780799865720000000000 |
| P(N=216   stop )= | 0.000227719545364379880000000000 |
| P(N=218   stop )= | 0.000211685895919799800000000000 |
| P(N=220   stop )= | 0.000198543071746826170000000000 |
| P(N=222   stop )= | 0.000178053975105285640000000000 |
| P(N=224   stop )= | 0.000164017081260681150000000000 |
| P(N=226   stop )= | 0.000154733657836914060000000000 |
| P(N=228   stop )= | 0.000141888856887817380000000000 |
| P(N=230   stop )= | 0.000130489468574523930000000000 |
| P(N=232   stop )= | 0.000117391347885131840000000000 |
| P(N=234   stop )= | 0.000108316540718078610000000000 |
| P(N=236   stop )= | 0.000098437070846557617000000000 |
| P(N=238   stop )= | 0.000094458460807800293000000000 |
| P(N=240   stop )= | 0.000085160136222839355000000000 |
| P(N=242   stop )= | 0.000076130032539367676000000000 |
| P(N=244   stop )= | 0.000072598457336425781000000000 |
| P(N=246   stop )= | 0.000066116452217102051000000000 |
| P(N=248   stop )= | 0.000060901045799255371000000000 |
| P(N=250   stop )= | 0.000054031610488891602000000000 |
| P(N=252   stop )= | 0.000052973628044128418000000000 |
| P(N=254   stop )= | 0.000046223402023315430000000000 |
| P(N=256   stop )= | 0.000042334198951721191000000000 |
| P(N=258   stop )= | 0.000037610530853271484000000000 |
| P(N=260   stop )= | 0.000033378601074218750000000000 |
| P(N=262   stop )= | 0.000033259391784667969000000000 |
| P(N=264   stop )= | 0.000031933188438415527000000000 |
| P(N=266   stop )= | 0.000028759241104125977000000000 |
| P(N=268   stop )= | 0.000026896595954895020000000000 |
| P(N=270   stop )= | 0.000022947788238525391000000000 |
| P(N=272   stop )= | 0.000020518898963928223000000000 |
| P(N=274   stop )= | 0.000018343329429626465000000000 |
| P(N=276   stop )= | 0.000018894672393798828000000000 |
| P(N=278   stop )= | 0.000018596649169921875000000000 |
| P(N=280   stop )= | 0.000014618039131164551000000000 |
| P(N=282   stop )= | 0.000015005469322204590000000000 |
| P(N=284   stop )= | 0.000012949109077453613000000000 |
| P(N=286   stop )= | 0.000012561678886413574000000000 |
| P(N=288   stop )= | 0.000011399388313293457000000000 |
| P(N=290   stop )= | 0.000011011958122253418000000000 |
| P(N=292   stop )= | 0.000009089708328247070300000000 |
| P(N=294   stop )= | 0.000008180737495422363300000000 |
| P(N=296   stop )= | 0.000007793307304382324200000000 |
| P(N=298   stop )= | 0.000007778406143188476600000000 |
| P(N=300   stop )= | 0.000005871057510375976600000000 |
| P(N=302   stop )= | 0.000005289912223815918000000000 |
| P(N=304   stop )= | 0.000005796551704406738300000000 |

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|-------------------|----------------------------------|
| P(N=306   stop )= | 0.000004738569259643554700000000 |
| P(N=308   stop )= | 0.000004291534423828125000000000 |
| P(N=310   stop )= | 0.000004768371582031250000000000 |
| P(N=312   stop )= | 0.000003516674041748046900000000 |
| P(N=314   stop )= | 0.000003024935722351074200000000 |
| P(N=316   stop )= | 0.000003561377525329589800000000 |
| P(N=318   stop )= | 0.000002816319465637207000000000 |
| P(N=320   stop )= | 0.000002786517143249511700000000 |
| P(N=322   stop )= | 0.000002786517143249511700000000 |
| P(N=324   stop )= | 0.000002369284629821777300000000 |
| P(N=326   stop )= | 0.000002339482307434082000000000 |
| P(N=328   stop )= | 0.000002264976501464843800000000 |
| P(N=330   stop )= | 0.000001758337020874023400000000 |
| P(N=332   stop )= | 0.000001549720764160156300000000 |
| P(N=334   stop )= | 0.000001132488250732421900000000 |
| P(N=336   stop )= | 0.000001505017280578613300000000 |
| P(N=338   stop )= | 0.000001028180122375488300000000 |
| P(N=340   stop )= | 0.000000998377799987792970000000 |
| P(N=342   stop )= | 0.000000849366188049316410000000 |
| P(N=344   stop )= | 0.000001162290573120117200000000 |
| P(N=346   stop )= | 0.000000759959220886230470000000 |
| P(N=348   stop )= | 0.000000968575477600097660000000 |
| P(N=350   stop )= | 0.000000670552253723144530000000 |
| P(N=352   stop )= | 0.000000834465026855468750000000 |
| P(N=354   stop )= | 0.000000551342964172363280000000 |
| P(N=356   stop )= | 0.000000804662704467773440000000 |
| P(N=358   stop )= | 0.000000342726707458496090000000 |
| P(N=360   stop )= | 0.000000387430191040039060000000 |
| P(N=362   stop )= | 0.000000685453414916992190000000 |
| P(N=364   stop )= | 0.000000387430191040039060000000 |
| P(N=366   stop )= | 0.000000387430191040039060000000 |
| P(N=368   stop )= | 0.000000372529029846191410000000 |
| P(N=370   stop )= | 0.000000372529029846191410000000 |
| P(N=372   stop )= | 0.000000253319740295410160000000 |
| P(N=374   stop )= | 0.000000238418579101562500000000 |
| P(N=376   stop )= | 0.000000312924385070800780000000 |
| P(N=378   stop )= | 0.000000476837158203125000000000 |
| P(N=380   stop )= | 0.000000119209289550781250000000 |
| P(N=382   stop )= | 0.000000089406967163085938000000 |
| P(N=384   stop )= | 0.000000208616256713867190000000 |
| P(N=386   stop )= | 0.000000163912773132324220000000 |
| P(N=388   stop )= | 0.000000178813934326171880000000 |
| P(N=390   stop )= | 0.000000163912773132324220000000 |
| P(N=392   stop )= | 0.000000104308128356933590000000 |
| P(N=394   stop )= | 0.000000119209289550781250000000 |
| P(N=396   stop )= | 0.000000134110450744628910000000 |
| P(N=398   stop )= | 0.000000223517417907714840000000 |
| P(N=400   stop )= | 0.000000178813934326171880000000 |
| P(N=402   stop )= | 0.000000089406967163085938000000 |
| P(N=404   stop )= | 0.000000089406967163085938000000 |

|                   |                                         |
|-------------------|-----------------------------------------|
| P(N=406   stop )= | 0.000000089406967163085938000000        |
| P(N=408   stop )= | 0.000000044703483581542969000000        |
| P(N=412   stop )= | 0.000000074505805969238281000000        |
| P(N=416   stop )= | 0.000000029802322387695313000000        |
| P(N=424   stop )= | 0.000000074505805969238281000000        |
| P(N=426   stop )= | 0.000000044703483581542969000000        |
| P(N=432   stop )= | 0.000000074505805969238281000000        |
| P(N=434   stop )= | 0.000000029802322387695313000000        |
| P(N=436   stop )= | 0.000000029802322387695313000000        |
| P(N=438   stop )= | 0.000000044703483581542969000000        |
| P(N=450   stop )= | 0.000000044703483581542969000000        |
| P(N=492   stop )= | 0.000000044703483581542969000000        |
| STOP ave=         | 85.7118467391 varaince= 1006.4671925388 |

6.2)Collecting coupon:

6.2.1)There are ten kinds of coupon and the probability of getting coupon is 0.1.

rule : There are k coupons and Someone must collect all kinds  
 of coupon which at least one.  
 N is the number of coupon.      There are 10 kinds of coupon

- 
- P(1st kind coupon)=0.100000  
 P(2nd kind coupon)=0.100000  
 P(3rd kind coupon)=0.100000  
 P(4th kind coupon)=0.100000  
 P(5th kind coupon)=0.100000  
 P(6th kind coupon)=0.100000  
 P(7th kind coupon)=0.100000  
 P(8th kind coupon)=0.100000  
 P(9th kind coupon)=0.100000  
 P(10th kind coupon)=0.100000
- 

~~~~~ the probability distribution of number of coupons ~~~~~

| | |
|----------|--|
| P(N=10)= | 0.0003649145364761352500000000000000000000 |
| P(N=11)= | 0.0016376823186874390000000000000000000000 |
| P(N=12)= | 0.0042121708393096924000000000000000000000 |
| P(N=13)= | 0.0080689489841461182000000000000000000000 |
| P(N=14)= | 0.0130541622638702390000000000000000000000 |
| P(N=15)= | 0.0186377465724945070000000000000000000000 |
| P(N=16)= | 0.0243607163429260250000000000000000000000 |
| P(N=17)= | 0.0298250615596771240000000000000000000000 |
| P(N=18)= | 0.0345915257930755620000000000000000000000 |
| P(N=19)= | 0.0384915471076965330000000000000000000000 |
| P(N=20)= | 0.0415802597999572750000000000000000000000 |
| P(N=21)= | 0.0435544848442077640000000000000000000000 |
| P(N=22)= | 0.0446756482124328610000000000000000000000 |
| P(N=23)= | 0.0451107919216156010000000000000000000000 |
| P(N=24)= | 0.0446632653474807740000000000000000000000 |
| P(N=25)= | 0.0438084751367568970000000000000000000000 |
| P(N=26)= | 0.0423856824636459350000000000000000000000 |
| P(N=27)= | 0.0406609624624252320000000000000000000000 |
| P(N=28)= | 0.0386663824319839480000000000000000000000 |
| P(N=29)= | 0.0365154445171356200000000000000000000000 |
| P(N=30)= | 0.0343214869499206540000000000000000000000 |
| P(N=31)= | 0.0320102572441101070000000000000000000000 |
| P(N=32)= | 0.0298309773206710820000000000000000000000 |
| P(N=33)= | 0.0276097357273101810000000000000000000000 |
| P(N=34)= | 0.0254620164632797240000000000000000000000 |
| P(N=35)= | 0.0234392732381820680000000000000000000000 |
| P(N=36)= | 0.0215037763118743900000000000000000000000 |
| P(N=37)= | 0.0196651518344879150000000000000000000000 |
| P(N=38)= | 0.0180162042379379270000000000000000000000 |
| P(N=39)= | 0.0164312422275543210000000000000000000000 |
| P(N=40)= | 0.0149358063936233520000000000000000000000 |
| P(N=41)= | 0.0136056393384933470000000000000000000000 |

| | |
|----------|---|
| P(N=42)= | 0.0123413950204849240000000000000000000000 |
| P(N=43)= | 0.0111990272998809810000000000000000000000 |
| P(N=44)= | 0.0101437270641326900000000000000000000000 |
| P(N=45)= | 0.0092114210128784180000000000000000000000 |
| P(N=46)= | 0.0083667784929275513000000000000000000000 |
| P(N=47)= | 0.0075335502624511719000000000000000000000 |
| P(N=48)= | 0.0068381130695343018000000000000000000000 |
| P(N=49)= | 0.0061903893947601318000000000000000000000 |
| P(N=50)= | 0.0055598914623260498000000000000000000000 |
| P(N=51)= | 0.0050256401300430298000000000000000000000 |
| P(N=52)= | 0.0045336186885833740000000000000000000000 |
| P(N=53)= | 0.0040936768054962158000000000000000000000 |
| P(N=54)= | 0.0036945044994354248000000000000000000000 |
| P(N=55)= | 0.0033256411552429199000000000000000000000 |
| P(N=56)= | 0.0030060559511184692000000000000000000000 |
| P(N=57)= | 0.0027038305997848511000000000000000000000 |
| P(N=58)= | 0.0024409592151641846000000000000000000000 |
| P(N=59)= | 0.0021970570087432861000000000000000000000 |
| P(N=60)= | 0.0019806325435638428000000000000000000000 |
| P(N=61)= | 0.0017888545989990234000000000000000000000 |
| P(N=62)= | 0.0016050189733505249000000000000000000000 |
| P(N=63)= | 0.0014562308788299561000000000000000000000 |
| P(N=64)= | 0.0013010650873184204000000000000000000000 |
| P(N=65)= | 0.0011748075485229492000000000000000000000 |
| P(N=66)= | 0.0010621398687362671000000000000000000000 |
| P(N=67)= | 0.0009471923112869262700000000000000000000 |
| P(N=68)= | 0.0008540451526641845700000000000000000000 |
| P(N=69)= | 0.00078035891056060791000000000000000000000 |
| P(N=70)= | 0.00068987905979156494000000000000000000000 |
| P(N=71)= | 0.00061768293380737305000000000000000000000 |
| P(N=72)= | 0.00056694447994232178000000000000000000000 |
| P(N=73)= | 0.00049979984760284424000000000000000000000 |
| P(N=74)= | 0.00046046078205108643000000000000000000000 |
| P(N=75)= | 0.00040844082832336426000000000000000000000 |
| P(N=76)= | 0.00037167966365814209000000000000000000000 |
| P(N=77)= | 0.00033038854598999023000000000000000000000 |
| P(N=78)= | 0.00029462575912475586000000000000000000000 |
| P(N=79)= | 0.00026687979698181152000000000000000000000 |
| P(N=80)= | 0.00024029612541198730000000000000000000000 |
| P(N=81)= | 0.00021304190158843994000000000000000000000 |
| P(N=82)= | 0.00019885599613189697000000000000000000000 |
| P(N=83)= | 0.00017514824867248535000000000000000000000 |
| P(N=84)= | 0.00016157329082489014000000000000000000000 |
| P(N=85)= | 0.00014536082744598389000000000000000000000 |
| P(N=86)= | 0.00013294816017150879000000000000000000000 |
| P(N=87)= | 0.00011610984802246094000000000000000000000 |
| P(N=88)= | 0.00010429322719573975000000000000000000000 |
| P(N=89)= | 0.00009338557720184326200000000000000000000 |
| P(N=90)= | 0.00008548796176910400400000000000000000000 |
| P(N=91)= | 0.00007762014865875244100000000000000000000 |

| | |
|-----------|---|
| P(N=92)= | 0.00006745755672454834000000000000000000000 |
| P(N=93)= | 0.0000615119934082031250000000000000000000 |
| P(N=94)= | 0.00005660951137542724600000000000000000 |
| P(N=95)= | 0.00005134940147399902300000000000000000 |
| P(N=96)= | 0.00004288554191589355500000000000000000 |
| P(N=97)= | 0.00004145503044128418000000000000000000 |
| P(N=98)= | 0.00003768503665924072300000000000000000 |
| P(N=99)= | 0.00003497302532196044900000000000000000 |
| P(N=100)= | 0.00002993643283843994100000000000000000 |
| P(N=101)= | 0.00002744793891906738300000000000000000 |
| P(N=102)= | 0.00002382695674896240200000000000000000 |
| P(N=103)= | 0.00002144277095794677700000000000000000 |
| P(N=104)= | 0.00002042949199676513700000000000000000 |
| P(N=105)= | 0.00001817941665649414100000000000000000 |
| P(N=106)= | 0.00001689791679382324200000000000000000 |
| P(N=107)= | 0.00001406669616699218800000000000000000 |
| P(N=108)= | 0.00001242756843566894500000000000000000 |
| P(N=109)= | 0.00001172721385955810500000000000000000 |
| P(N=110)= | 0.00001128017902374267600000000000000000 |
| P(N=111)= | 0.00000825524330139160160000000000000000 |
| P(N=112)= | 0.00000835955142974853520000000000000000 |
| P(N=113)= | 0.00000803172588348388670000000000000000 |
| P(N=114)= | 0.00000682473182678222660000000000000000 |
| P(N=115)= | 0.00000573694705963134770000000000000000 |
| P(N=116)= | 0.00000573694705963134770000000000000000 |
| P(N=117)= | 0.00000518560409545898440000000000000000 |
| P(N=118)= | 0.00000536441802978515630000000000000000 |
| P(N=119)= | 0.00000426173210144042970000000000000000 |
| P(N=120)= | 0.00000336766242980957030000000000000000 |
| P(N=121)= | 0.00000387430191040039060000000000000000 |
| P(N=122)= | 0.00000302493572235107420000000000000000 |
| P(N=123)= | 0.00000298023223876953130000000000000000 |
| P(N=124)= | 0.00000214576721191406250000000000000000 |
| P(N=125)= | 0.00000205636024475097660000000000000000 |
| P(N=126)= | 0.00000189244747161865230000000000000000 |
| P(N=127)= | 0.00000193715095520019530000000000000000 |
| P(N=128)= | 0.00000104308128356933590000000000000000 |
| P(N=129)= | 0.00000138580799102783200000000000000000 |
| P(N=130)= | 0.00000122189521789550780000000000000000 |
| P(N=131)= | 0.00000120699405670166020000000000000000 |
| P(N=132)= | 0.00000099837779998779297000000000000000 |
| P(N=133)= | 0.00000089406967163085938000000000000000 |
| P(N=134)= | 0.00000087916851043701172000000000000000 |
| P(N=135)= | 0.00000075995922088623047000000000000000 |
| P(N=136)= | 0.00000077486038208007813000000000000000 |
| P(N=137)= | 0.00000081956386566162109000000000000000 |
| P(N=138)= | 0.00000055134296417236328000000000000000 |
| P(N=139)= | 0.00000041723251342773438000000000000000 |
| P(N=140)= | 0.00000023841857910156250000000000000000 |
| P(N=141)= | 0.00000038743019104003906000000000000000 |

| | |
|-----------|--|
| P(N=142)= | 0.0000005364418029785156300000000000000000 |
| P(N=143)= | 0.0000003129243850708007800000000000000000 |
| P(N=144)= | 0.0000000894069671630859380000000000000000 |
| P(N=145)= | 0.0000002682209014892578100000000000000000 |
| P(N=146)= | 0.0000001937150955200195300000000000000000 |
| P(N=147)= | 0.0000002682209014892578100000000000000000 |
| P(N=148)= | 0.0000001937150955200195300000000000000000 |
| P(N=149)= | 0.0000001937150955200195300000000000000000 |
| P(N=150)= | 0.0000001043081283569335900000000000000000 |
| P(N=151)= | 0.0000002682209014892578100000000000000000 |
| P(N=152)= | 0.0000001192092895507812500000000000000000 |
| P(N=153)= | 0.0000000894069671630859380000000000000000 |
| P(N=154)= | 0.0000002235174179077148400000000000000000 |
| P(N=155)= | 0.0000001937150955200195300000000000000000 |
| P(N=157)= | 0.0000001341104507446289100000000000000000 |
| P(N=159)= | 0.0000000447034835815429690000000000000000 |
| P(N=160)= | 0.0000000596046447753906250000000000000000 |
| P(N=161)= | 0.0000000596046447753906250000000000000000 |
| P(N=162)= | 0.0000001192092895507812500000000000000000 |
| P(N=164)= | 0.0000000298023223876953130000000000000000 |
| P(N=166)= | 0.0000000298023223876953130000000000000000 |
| P(N=167)= | 0.0000001192092895507812500000000000000000 |
| P(N=168)= | 0.0000000596046447753906250000000000000000 |
| P(N=170)= | 0.0000000298023223876953130000000000000000 |
| P(N=182)= | 0.0000000298023223876953130000000000000000 |
| P(N=184)= | 0.0000000298023223876953130000000000000000 |
| ave= | 29.2896446884 |
| varaince= | 125.7686118768 |

the point estimator:

P(1st kind coupon)=0.100008
 P(2nd kind coupon)=0.100009
 P(3rd kind coupon)=0.100004
 P(4th kind coupon)=0.100002
 P(5th kind coupon)=0.100003
 P(6th kind coupon)=0.099981
 P(7th kind coupon)=0.100003
 P(8th kind coupon)=0.100013
 P(9th kind coupon)=0.099999
 P(10th kind coupon)=0.099979

6.2.2) There are ten kinds of coupon and the probability of getting coupon is below.

rule : There are k coupons and Someone must collect all kinds of coupon which at least one.

N is the number of coupon.

There are 10 kinds of coupon

-
- P(1st kind coupon)=0.050000
- P(2nd kind coupon)=0.050000
- P(3rd kind coupon)=0.100000
- P(4th kind coupon)=0.100000
- P(5th kind coupon)=0.150000
- P(6th kind coupon)=0.050000
- P(7th kind coupon)=0.070000
- P(8th kind coupon)=0.130000
- P(9th kind coupon)=0.200000
- P(10th kind coupon)=0.100000
-

~~~~~ the probability distribution of number of coupons ~~~~~

- P(N=10)= 0.0001224577426910400400000000000000000000
- P(N=11)= 0.0005617439746856689500000000000000000000
- P(N=12)= 0.0014407187700271606000000000000000000000
- P(N=13)= 0.0028418749570846558000000000000000000000
- P(N=14)= 0.0047193318605422974000000000000000000000
- P(N=15)= 0.0069367289543151855000000000000000000000
- P(N=16)= 0.0094301104545593262000000000000000000000
- P(N=17)= 0.0119831413030624390000000000000000000000
- P(N=18)= 0.0145598798990249630000000000000000000000
- P(N=19)= 0.0169355422258377080000000000000000000000
- P(N=20)= 0.0191770344972610470000000000000000000000
- P(N=21)= 0.0211760252714157100000000000000000000000
- P(N=22)= 0.0228336602449417110000000000000000000000
- P(N=23)= 0.0243047177791595460000000000000000000000
- P(N=24)= 0.0254179835319519040000000000000000000000
- P(N=25)= 0.0262731015682220460000000000000000000000
- P(N=26)= 0.0268352329730987550000000000000000000000
- P(N=27)= 0.0272209495306015010000000000000000000000
- P(N=28)= 0.0273841619491577150000000000000000000000
- P(N=29)= 0.0273112058639526370000000000000000000000
- P(N=30)= 0.0271722823381423950000000000000000000000
- P(N=31)= 0.0268526673316955570000000000000000000000
- P(N=32)= 0.0263793170452117920000000000000000000000
- P(N=33)= 0.0258498340845108030000000000000000000000
- P(N=34)= 0.0252319276332855220000000000000000000000
- P(N=35)= 0.0245586484670639040000000000000000000000
- P(N=36)= 0.0238219350576400760000000000000000000000
- P(N=37)= 0.0230469107627868650000000000000000000000
- P(N=38)= 0.0222645401954650880000000000000000000000
- P(N=39)= 0.0214251428842544560000000000000000000000
- P(N=40)= 0.0206288546323776250000000000000000000000
- P(N=41)= 0.0198164135217666630000000000000000000000

|          |                                            |
|----------|--------------------------------------------|
| P(N=42)= | 0.0190138965845108030000000000000000000000 |
| P(N=43)= | 0.0182482749223709110000000000000000000000 |
| P(N=44)= | 0.0174653828144073490000000000000000000000 |
| P(N=45)= | 0.0166981816291809080000000000000000000000 |
| P(N=46)= | 0.0159666240215301510000000000000000000000 |
| P(N=47)= | 0.0152072608470916750000000000000000000000 |
| P(N=48)= | 0.0145656019449234010000000000000000000000 |
| P(N=49)= | 0.0138815194368362430000000000000000000000 |
| P(N=50)= | 0.0132240802049636840000000000000000000000 |
| P(N=51)= | 0.0126000493764877320000000000000000000000 |
| P(N=52)= | 0.0119622051715850830000000000000000000000 |
| P(N=53)= | 0.0114098936319351200000000000000000000000 |
| P(N=54)= | 0.0108775943517684940000000000000000000000 |
| P(N=55)= | 0.0103348046541213990000000000000000000000 |
| P(N=56)= | 0.0098275840282440186000000000000000000000 |
| P(N=57)= | 0.0093479156494140625000000000000000000000 |
| P(N=58)= | 0.0088869929313659668000000000000000000000 |
| P(N=59)= | 0.0084337890148162842000000000000000000000 |
| P(N=60)= | 0.0080309361219406128000000000000000000000 |
| P(N=61)= | 0.0076195299625396729000000000000000000000 |
| P(N=62)= | 0.0072288662195205688000000000000000000000 |
| P(N=63)= | 0.0068376213312149048000000000000000000000 |
| P(N=64)= | 0.0065277367830276489000000000000000000000 |
| P(N=65)= | 0.0061913132667541504000000000000000000000 |
| P(N=66)= | 0.0058883577585220337000000000000000000000 |
| P(N=67)= | 0.0055675804615020752000000000000000000000 |
| P(N=68)= | 0.0053166896104812622000000000000000000000 |
| P(N=69)= | 0.0050236731767654419000000000000000000000 |
| P(N=70)= | 0.0047699958086013794000000000000000000000 |
| P(N=71)= | 0.0045214742422103882000000000000000000000 |
| P(N=72)= | 0.0042755603790283203000000000000000000000 |
| P(N=73)= | 0.0040849000215530396000000000000000000000 |
| P(N=74)= | 0.0038569569587707520000000000000000000000 |
| P(N=75)= | 0.0036596655845642090000000000000000000000 |
| P(N=76)= | 0.0034814625978469849000000000000000000000 |
| P(N=77)= | 0.0032865852117538452000000000000000000000 |
| P(N=78)= | 0.0031317025423049927000000000000000000000 |
| P(N=79)= | 0.0029776990413665771000000000000000000000 |
| P(N=80)= | 0.0028182566165924072000000000000000000000 |
| P(N=81)= | 0.0026888698339462280000000000000000000000 |
| P(N=82)= | 0.0025320947170257568000000000000000000000 |
| P(N=83)= | 0.0023961216211318970000000000000000000000 |
| P(N=84)= | 0.0022877305746078491000000000000000000000 |
| P(N=85)= | 0.0021725445985794067000000000000000000000 |
| P(N=86)= | 0.0020673274993896484000000000000000000000 |
| P(N=87)= | 0.0019527673721313477000000000000000000000 |
| P(N=88)= | 0.0018556565046310425000000000000000000000 |
| P(N=89)= | 0.0017536133527755737000000000000000000000 |
| P(N=90)= | 0.0016600042581558228000000000000000000000 |
| P(N=91)= | 0.0015800297260284424000000000000000000000 |

|           |                                           |
|-----------|-------------------------------------------|
| P(N=92)=  | 0.00150124728679656980000000000000000000  |
| P(N=93)=  | 0.00142262876033782960000000000000000000  |
| P(N=94)=  | 0.00133909285068511960000000000000000000  |
| P(N=95)=  | 0.00128598511219024660000000000000000000  |
| P(N=96)=  | 0.00122232735157012940000000000000000000  |
| P(N=97)=  | 0.00115768611431121830000000000000000000  |
| P(N=98)=  | 0.00109727680683135990000000000000000000  |
| P(N=99)=  | 0.00103379786014556880000000000000000000  |
| P(N=100)= | 0.000987946987152099610000000000000000000 |
| P(N=101)= | 0.000935643911361694340000000000000000000 |
| P(N=102)= | 0.000885590910911560060000000000000000000 |
| P(N=103)= | 0.000842928886413574220000000000000000000 |
| P(N=104)= | 0.000802546739578247070000000000000000000 |
| P(N=105)= | 0.000754162669181823730000000000000000000 |
| P(N=106)= | 0.000725075602531433110000000000000000000 |
| P(N=107)= | 0.000681653618812561040000000000000000000 |
| P(N=108)= | 0.000647187232971191410000000000000000000 |
| P(N=109)= | 0.000617682933807373050000000000000000000 |
| P(N=110)= | 0.000581651926040649410000000000000000000 |
| P(N=111)= | 0.000558033585548400880000000000000000000 |
| P(N=112)= | 0.000526979565620422360000000000000000000 |
| P(N=113)= | 0.000492841005325317380000000000000000000 |
| P(N=114)= | 0.000472366809844970700000000000000000000 |
| P(N=115)= | 0.000447630882263183590000000000000000000 |
| P(N=116)= | 0.000427260994911193850000000000000000000 |
| P(N=117)= | 0.000410318374633789060000000000000000000 |
| P(N=118)= | 0.000390201807022094730000000000000000000 |
| P(N=119)= | 0.000368416309356689450000000000000000000 |
| P(N=120)= | 0.000349327921867370610000000000000000000 |
| P(N=121)= | 0.000332623720169067380000000000000000000 |
| P(N=122)= | 0.000313267111778259280000000000000000000 |
| P(N=123)= | 0.000296011567115783690000000000000000000 |
| P(N=124)= | 0.000285789370536804200000000000000000000 |
| P(N=125)= | 0.000264763832092285160000000000000000000 |
| P(N=126)= | 0.000257313251495361330000000000000000000 |
| P(N=127)= | 0.000238478183746337890000000000000000000 |
| P(N=128)= | 0.000233024358749389650000000000000000000 |
| P(N=129)= | 0.000218689441680908200000000000000000000 |
| P(N=130)= | 0.000202581286430358890000000000000000000 |
| P(N=131)= | 0.000197157263755798340000000000000000000 |
| P(N=132)= | 0.000186935067176818850000000000000000000 |
| P(N=133)= | 0.000174000859260559080000000000000000000 |
| P(N=134)= | 0.000169202685356140140000000000000000000 |
| P(N=135)= | 0.000159174203872680660000000000000000000 |
| P(N=136)= | 0.000151351094245910640000000000000000000 |
| P(N=137)= | 0.000145331025123596190000000000000000000 |
| P(N=138)= | 0.000136777758598327640000000000000000000 |
| P(N=139)= | 0.000128328800201416020000000000000000000 |
| P(N=140)= | 0.000122979283332824710000000000000000000 |
| P(N=141)= | 0.000117748975753784180000000000000000000 |

P(N=142)= 0.0001133680343627929700000000000000000000  
 P(N=143)= 0.000103518366813659670000000000000000000  
 P(N=144)= 0.00009882450103759765600000000000000000000  
 P(N=145)= 0.00009369850158691406300000000000000000000  
 P(N=146)= 0.00008864700794219970700000000000000000000  
 P(N=147)= 0.00008498132228851318400000000000000000000  
 P(N=148)= 0.000079885125160217285000000000000000000000  
 P(N=149)= 0.0000764131546020507810000000000000000000000  
 P(N=150)= 0.0000740885734558105470000000000000000000000  
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 P(N=152)= 0.0000663101673126220700000000000000000000000  
 P(N=153)= 0.0000630021095275878910000000000000000000000  
 P(N=154)= 0.0000578165054321289060000000000000000000000  
 P(N=155)= 0.0000554174184799194340000000000000000000000  
 P(N=156)= 0.0000554919242858886720000000000000000000000  
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 P(N=158)= 0.0000490099191665649410000000000000000000000  
 P(N=159)= 0.0000450611114501953130000000000000000000000  
 P(N=160)= 0.0000441819429397583010000000000000000000000  
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 P(N=162)= 0.0000400245189666748050000000000000000000000  
 P(N=163)= 0.0000369399785995483400000000000000000000000  
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 P(N=167)= 0.0000313222408294677730000000000000000000000  
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 P(N=169)= 0.0000283420085906982420000000000000000000000  
 P(N=170)= 0.0000274777412414550780000000000000000000000  
 P(N=171)= 0.0000243186950683593750000000000000000000000  
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 P(N=180)= 0.0000164806842803955080000000000000000000000  
 P(N=181)= 0.0000143647193908691410000000000000000000000  
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 P(N=184)= 0.0000125169754028320310000000000000000000000  
 P(N=185)= 0.0000115782022476196290000000000000000000000  
 P(N=186)= 0.0000117719173431396480000000000000000000000  
 P(N=187)= 0.0000111013650894165040000000000000000000000  
 P(N=188)= 0.0000108331441879272460000000000000000000000  
 P(N=189)= 0.00000967085361480712890000000000000000000000  
 P(N=190)= 0.00000941753387451171880000000000000000000000  
 P(N=191)= 0.00000900030136108398440000000000000000000000

|           |                                          |
|-----------|------------------------------------------|
| P(N=192)= | 0.00000783801078796386720000000000000000 |
| P(N=193)= | 0.00000795722007751464840000000000000000 |
| P(N=194)= | 0.00000670552253723144530000000000000000 |
| P(N=195)= | 0.00000715255737304687500000000000000000 |
| P(N=196)= | 0.00000771880149841308590000000000000000 |
| P(N=197)= | 0.00000627338886260986330000000000000000 |
| P(N=198)= | 0.00000634789466857910160000000000000000 |
| P(N=199)= | 0.00000585615634918212890000000000000000 |
| P(N=200)= | 0.00000487267971038818360000000000000000 |
| P(N=201)= | 0.00000528991222381591800000000000000000 |
| P(N=202)= | 0.00000466406345367431640000000000000000 |
| P(N=203)= | 0.00000470876693725585940000000000000000 |
| P(N=204)= | 0.00000460445880889892580000000000000000 |
| P(N=205)= | 0.00000490248203277587890000000000000000 |
| P(N=206)= | 0.00000376999378204345700000000000000000 |
| P(N=207)= | 0.00000360608100891113280000000000000000 |
| P(N=208)= | 0.00000366568565368652340000000000000000 |
| P(N=209)= | 0.00000356137752532958980000000000000000 |
| P(N=210)= | 0.00000357627868652343750000000000000000 |
| P(N=211)= | 0.00000320374965667724610000000000000000 |
| P(N=212)= | 0.00000284612178802490230000000000000000 |
| P(N=213)= | 0.00000320374965667724610000000000000000 |
| P(N=214)= | 0.00000314414501190185550000000000000000 |
| P(N=215)= | 0.00000274181365966796880000000000000000 |
| P(N=216)= | 0.00000263750553131103520000000000000000 |
| P(N=217)= | 0.00000222027301788330080000000000000000 |
| P(N=218)= | 0.00000217556953430175780000000000000000 |
| P(N=219)= | 0.00000260770320892333980000000000000000 |
| P(N=220)= | 0.00000196695327758789060000000000000000 |
| P(N=221)= | 0.00000171363353729248050000000000000000 |
| P(N=222)= | 0.00000181794166564941410000000000000000 |
| P(N=223)= | 0.00000178813934326171880000000000000000 |
| P(N=224)= | 0.00000154972076416015630000000000000000 |
| P(N=225)= | 0.00000172853469848632810000000000000000 |
| P(N=226)= | 0.00000120699405670166020000000000000000 |
| P(N=227)= | 0.00000125169754028320310000000000000000 |
| P(N=228)= | 0.00000140070915222167970000000000000000 |
| P(N=229)= | 0.00000111758708953857420000000000000000 |
| P(N=230)= | 0.00000111758708953857420000000000000000 |
| P(N=231)= | 0.00000116229057312011720000000000000000 |
| P(N=232)= | 0.00000095367431640625000000000000000000 |
| P(N=233)= | 0.00000086426734924316406000000000000000 |
| P(N=234)= | 0.00000111758708953857420000000000000000 |
| P(N=235)= | 0.00000055134296417236328000000000000000 |
| P(N=236)= | 0.00000083446502685546875000000000000000 |
| P(N=237)= | 0.00000083446502685546875000000000000000 |
| P(N=238)= | 0.00000078976154327392578000000000000000 |
| P(N=239)= | 0.00000089406967163085938000000000000000 |
| P(N=240)= | 0.00000065565109252929688000000000000000 |
| P(N=241)= | 0.00000062584877014160156000000000000000 |



|           |                                            |
|-----------|--------------------------------------------|
| P(N=242)= | 0.0000006854534149169921900000000000000000 |
| P(N=243)= | 0.0000005662441253662109400000000000000000 |
| P(N=244)= | 0.0000007450580596923828100000000000000000 |
| P(N=245)= | 0.0000004768371582031250000000000000000000 |
| P(N=246)= | 0.0000006258487701416015600000000000000000 |
| P(N=247)= | 0.0000005513429641723632800000000000000000 |
| P(N=248)= | 0.0000005364418029785156300000000000000000 |
| P(N=249)= | 0.0000004172325134277343800000000000000000 |
| P(N=250)= | 0.0000003278255462646484400000000000000000 |
| P(N=251)= | 0.0000003427267074584960900000000000000000 |
| P(N=252)= | 0.0000004023313522338867200000000000000000 |
| P(N=253)= | 0.0000004023313522338867200000000000000000 |
| P(N=254)= | 0.0000004470348358154296900000000000000000 |
| P(N=255)= | 0.0000002533197402954101600000000000000000 |
| P(N=256)= | 0.0000002980232238769531300000000000000000 |
| P(N=257)= | 0.0000002980232238769531300000000000000000 |
| P(N=258)= | 0.0000002831220626831054700000000000000000 |
| P(N=259)= | 0.0000003874301910400390600000000000000000 |
| P(N=260)= | 0.0000002980232238769531300000000000000000 |
| P(N=261)= | 0.0000002831220626831054700000000000000000 |
| P(N=262)= | 0.0000001937150955200195300000000000000000 |
| P(N=263)= | 0.0000002384185791015625000000000000000000 |
| P(N=264)= | 0.0000002682209014892578100000000000000000 |
| P(N=265)= | 0.0000001639127731323242200000000000000000 |
| P(N=266)= | 0.0000001639127731323242200000000000000000 |
| P(N=267)= | 0.0000001639127731323242200000000000000000 |
| P(N=268)= | 0.0000000745058059692382810000000000000000 |
| P(N=269)= | 0.0000001341104507446289100000000000000000 |
| P(N=270)= | 0.0000003278255462646484400000000000000000 |
| P(N=271)= | 0.0000002086162567138671900000000000000000 |
| P(N=272)= | 0.0000001192092895507812500000000000000000 |
| P(N=273)= | 0.0000001043081283569335900000000000000000 |
| P(N=274)= | 0.0000001490116119384765600000000000000000 |
| P(N=275)= | 0.0000000894069671630859380000000000000000 |
| P(N=276)= | 0.0000001341104507446289100000000000000000 |
| P(N=277)= | 0.0000001043081283569335900000000000000000 |
| P(N=278)= | 0.0000000745058059692382810000000000000000 |
| P(N=279)= | 0.0000000298023223876953130000000000000000 |
| P(N=280)= | 0.0000000447034835815429690000000000000000 |
| P(N=281)= | 0.0000001490116119384765600000000000000000 |
| P(N=282)= | 0.0000000298023223876953130000000000000000 |
| P(N=283)= | 0.0000001341104507446289100000000000000000 |
| P(N=284)= | 0.0000001192092895507812500000000000000000 |
| P(N=285)= | 0.0000000447034835815429690000000000000000 |
| P(N=286)= | 0.0000000596046447753906250000000000000000 |
| P(N=287)= | 0.0000000298023223876953130000000000000000 |
| P(N=288)= | 0.0000000298023223876953130000000000000000 |
| P(N=289)= | 0.0000000298023223876953130000000000000000 |
| P(N=290)= | 0.0000000298023223876953130000000000000000 |
| P(N=291)= | 0.0000000149011611938476560000000000000000 |

P(N=292)= 0.0000000149011611938476560000000000000000  
 P(N=294)= 0.0000001192092895507812500000000000000000  
 P(N=295)= 0.0000000298023223876953130000000000000000  
 P(N=296)= 0.0000000745058059692382810000000000000000  
 P(N=298)= 0.0000000149011611938476560000000000000000  
 P(N=299)= 0.0000000298023223876953130000000000000000  
 P(N=300)= 0.0000000298023223876953130000000000000000  
 P(N=301)= 0.0000000149011611938476560000000000000000  
 P(N=302)= 0.0000000447034835815429690000000000000000  
 P(N=303)= 0.0000000298023223876953130000000000000000  
 P(N=304)= 0.0000000149011611938476560000000000000000  
 P(N=305)= 0.0000000745058059692382810000000000000000  
 P(N=306)= 0.0000000596046447753906250000000000000000  
 P(N=307)= 0.0000000596046447753906250000000000000000  
 P(N=308)= 0.0000000298023223876953130000000000000000  
 P(N=309)= 0.0000000298023223876953130000000000000000  
 P(N=310)= 0.0000000298023223876953130000000000000000  
 P(N=312)= 0.0000000298023223876953130000000000000000  
 P(N=313)= 0.0000000298023223876953130000000000000000  
 P(N=315)= 0.0000000149011611938476560000000000000000  
 P(N=317)= 0.0000000298023223876953130000000000000000  
 P(N=318)= 0.0000000298023223876953130000000000000000  
 P(N=320)= 0.0000000149011611938476560000000000000000  
 P(N=322)= 0.0000000298023223876953130000000000000000  
 P(N=323)= 0.0000000447034835815429690000000000000000  
 P(N=324)= 0.0000000298023223876953130000000000000000  
 P(N=331)= 0.0000000298023223876953130000000000000000  
 P(N=333)= 0.0000000149011611938476560000000000000000  
 P(N=336)= 0.0000000298023223876953130000000000000000  
 P(N=338)= 0.0000000149011611938476560000000000000000  
 P(N=352)= 0.0000000149011611938476560000000000000000  
 ave= 41.5105625987 varaince= 424.0463323707

the point estimator:

P(1st kind coupon)=0.054275  
 P(2nd kind coupon)=0.054247  
 P(3rd kind coupon)=0.099060  
 P(4th kind coupon)=0.099062  
 P(5th kind coupon)=0.146468  
 P(6th kind coupon)=0.054273  
 P(7th kind coupon)=0.071555  
 P(8th kind coupon)=0.127383  
 P(9th kind coupon)=0.194647  
 P(10th kind coupon)=0.099032

6.3) The priority probability is the distribution of parameter and the conditional probability is discrete type distribution.

6.3.1)  $p \sim \text{beta}(\alpha = 5, \beta = 5)$ ,  $X|p \sim \text{Binomial}(n = 10, p)$ .

X~B(n=10,p) p~beta(alpha=5.000000,beta=5.000000)

P(X=x)=

----- marginal probability -----

P(X=0)= 0.0108359133126934360000000000000000000000000000

P(X=1)= 0.0386996904024762350000000000000000000000000000

P(X=2)= 0.0803762800666815300000000000000000000000000000

P(X=3)= 0.1250297689926170000000000000000000000000000000

P(X=4)= 0.1591287968996927300000000000000000000000000000

P(X=5)= 0.1718591006516691200000000000000000000000000000

P(X=6)= 0.1591287968996953100000000000000000000000000000

P(X=7)= 0.1250297689926162200000000000000000000000000000

P(X=8)= 0.0803762800666820290000000000000000000000000000

P(X=9)= 0.0386996904024767970000000000000000000000000000

P(X=10)= 0.0108359133126934620000000000000000000000000000

E(X)= 5.0000000000 , Var(X)= 4.5454545455,

6.3.2)  $\lambda \sim \text{Gamma}(\alpha = 5, \beta = 2), X|p \sim \text{Poisson}(\lambda)$ .

| X~poission(lamda) lamda~Gamma(alpha=5.000000,beta=2.000000) |                                            |
|-------------------------------------------------------------|--------------------------------------------|
| P(X=x)=                                                     | marginal probability                       |
| P(X=0)=                                                     | 0.00411519693401236380000000000000000000   |
| P(X=1)=                                                     | 0.01371741810887372500000000000000000000   |
| P(X=2)=                                                     | 0.02743484428297019200000000000000000000   |
| P(X=3)=                                                     | 0.04267642489666990900000000000000000000   |
| P(X=4)=                                                     | 0.05690189988160605800000000000000000000   |
| P(X=5)=                                                     | 0.06828227985858709200000000000000000000   |
| P(X=6)=                                                     | 0.07586919984289276800000000000000000000   |
| P(X=7)=                                                     | 0.07948201888303208000000000000000000000   |
| P(X=8)=                                                     | 0.07948201888303177400000000000000000000   |
| P(X=9)=                                                     | 0.07653824040588257100000000000000000000   |
| P(X=10)=                                                    | 0.07143569104548996900000000000000000000   |
| P(X=11)=                                                    | 0.06494153731408162900000000000000000000   |
| P(X=12)=                                                    | 0.05772581094585179500000000000000000000   |
| P(X=13)=                                                    | 0.05032506595279280500000000000000000000   |
| P(X=14)=                                                    | 0.04313577081668015800000000000000000000   |
| P(X=15)=                                                    | 0.03642576202297350500000000000000000000   |
| P(X=16)=                                                    | 0.03035480168581188400000000000000000000   |
| P(X=17)=                                                    | 0.02499807197655095100000000000000000000   |
| P(X=18)=                                                    | 0.02036879938830090900000000000000000000   |
| P(X=19)=                                                    | 0.01643797845371619500000000000000000000   |
| P(X=20)=                                                    | 0.01315038276297190500000000000000000000   |
| P(X=21)=                                                    | 0.01043681171664186600000000000000000000   |
| P(X=22)=                                                    | 0.00822294256462069270000000000000000000   |
| P(X=23)=                                                    | 0.00643534635490560290000000000000000000   |
| P(X=24)=                                                    | 0.00500526938711546780000000000000000000   |
| P(X=25)=                                                    | 0.00387074165929747730000000000000000000   |
| P(X=26)=                                                    | 0.00297749358392618030000000000000000000   |
| P(X=27)=                                                    | 0.00227906916270814110000000000000000000   |
| P(X=28)=                                                    | 0.00173643364720595630000000000000000000   |
| P(X=29)=                                                    | 0.00131729448992146550000000000000000000   |
| P(X=30)=                                                    | 0.00099528916825462519000000000000000000   |
| P(X=31)=                                                    | 0.00074914238139058063000000000000000000   |
| P(X=32)=                                                    | 0.00056185678045674622000000000000000000   |
| P(X=33)=                                                    | 0.00041997374596676793000000000000000000   |
| P(X=34)=                                                    | 0.00031292160018382492000000000000000000   |
| P(X=35)=                                                    | 0.00023245602359026169000000000000000000   |
| P(X=36)=                                                    | 0.000172189613782140590000000000000000000  |
| P(X=37)=                                                    | 0.00012720308957823496000000000000000000   |
| P(X=38)=                                                    | 0.00009372852349831180600000000000000000   |
| P(X=39)=                                                    | 0.000068894375168271837000000000000000000  |
| P(X=40)=                                                    | 0.0000505224136769378810000000000000000000 |
| P(X=41)=                                                    | 0.0000369674513784980010000000000000000000 |
| P(X=42)=                                                    | 0.0000269918913086870870000000000000000000 |
| P(X=43)=                                                    | 0.0000196682391925484230000000000000000000 |
| P(X=44)=                                                    | 0.0000143038423578319250000000000000000000 |
| P(X=45)=                                                    | 0.0000103831329110692930000000000000000000 |

|          |                                          |
|----------|------------------------------------------|
| P(X=46)= | 0.00000752354416355046330000000000000000 |
| P(X=47)= | 0.00000544203049300762940000000000000000 |
| P(X=48)= | 0.00000392975655680371530000000000000000 |
| P(X=49)= | 0.00000283304347160131550000000000000000 |
| P(X=50)= | 0.00000203908155347337660000000000000000 |
| P(X=51)= | 0.00000146525640524680710000000000000000 |
| P(X=52)= | 0.00000105120178530781790000000000000000 |
| P(X=53)= | 0.00000075290164909424456000000000000000 |
| P(X=54)= | 0.00000053832619967019794000000000000000 |
| P(X=55)= | 0.00000038421217591506221000000000000000 |
| P(X=56)= | 0.00000027369378278218100000000000000000 |
| P(X=57)= | 0.00000019456401234100521000000000000000 |
| P(X=58)= | 0.00000013800174657106863000000000000000 |
| P(X=59)= | 0.00000009764204645975475700000000000000 |
| P(X=60)= | 0.00000006889861880677804200000000000000 |
| P(X=61)= | 0.00000004847110696189995700000000000000 |
| P(X=62)= | 0.00000003398750294577804300000000000000 |
| P(X=63)= | 0.00000002374510626812190300000000000000 |
| P(X=64)= | 0.00000001652318837015313500000000000000 |
| P(X=65)= | 0.00000001144771747014436500000000000000 |
| P(X=66)= | 0.00000000789380322114156140000000000000 |
| P(X=67)= | 0.00000000541542001103567540000000000000 |
| P(X=68)= | 0.00000000369482599013072960000000000000 |
| P(X=69)= | 0.00000000250618386286190630000000000000 |
| P(X=70)= | 0.00000000168941162204692030000000000000 |
| P(X=71)= | 0.00000000113139719854155030000000000000 |
| P(X=72)= | 0.00000000075251197553117478000000000000 |
| P(X=73)= | 0.00000000049693672201770446000000000000 |
| P(X=74)= | 0.00000000032573048985723455000000000000 |
| P(X=75)= | 0.00000000021187299536910243000000000000 |
| P(X=76)= | 0.00000000013672657046336634000000000000 |
| P(X=77)= | 0.00000000008751863064677511500000000000 |
| P(X=78)= | 0.00000000005555692469855640700000000000 |
| P(X=79)= | 0.00000000003496995370863590000000000000 |
| P(X=80)= | 0.00000000002182272560834975000000000000 |
| P(X=81)= | 0.00000000001349976468896779400000000000 |
| P(X=82)= | 0.00000000000827752731781596970000000000 |
| P(X=83)= | 0.00000000000503029433264541600000000000 |
| P(X=84)= | 0.00000000000302950922918113270000000000 |
| P(X=85)= | 0.00000000000180805278064573500000000000 |
| P(X=86)= | 0.00000000000106927460016355470000000000 |
| P(X=87)= | 0.00000000000062660108479136941000000000 |
| P(X=88)= | 0.00000000000036383608691630443000000000 |
| P(X=89)= | 0.00000000000020932748640502236000000000 |
| P(X=90)= | 0.00000000000011932994358471271000000000 |
| P(X=91)= | 0.00000000000006740241739523249900000000 |
| P(X=92)= | 0.00000000000003772311344431877100000000 |
| P(X=93)= | 0.00000000000002091950647153093600000000 |
| P(X=94)= | 0.00000000000001149516994730048000000000 |
| P(X=95)= | 0.00000000000000625906901989841240000000 |

|           |                                              |
|-----------|----------------------------------------------|
| P(X=96)=  | 0.000000000000000033771213804266125000000000 |
| P(X=97)=  | 0.000000000000000018056769311941922000000000 |
| P(X=98)=  | 0.000000000000000009567648432633638400000000 |
| P(X=99)=  | 0.000000000000000005024105685195405100000000 |
| P(X=100)= | 0.000000000000000002614679567488628800000000 |
| P(X=101)= | 0.000000000000000001348661827960318200000000 |
| P(X=102)= | 0.000000000000000000689496617009888980000000 |
| P(X=103)= | 0.000000000000000000349402520928208630000000 |
| P(X=104)= | 0.000000000000000000175511560028234870000000 |
| P(X=105)= | 0.000000000000000000087396238278687462000000 |
| P(X=106)= | 0.000000000000000000043142872759148587000000 |
| P(X=107)= | 0.000000000000000000021114318025790081000000 |
| P(X=108)= | 0.000000000000000000010245176084364024000000 |
| P(X=109)= | 0.000000000000000000004929003379122387000000 |
| P(X=110)= | 0.000000000000000000002351360838671037900000 |
| P(X=111)= | 0.000000000000000000001112303322128122900000 |
| P(X=112)= | 0.000000000000000000000521788378636924650000 |
| P(X=113)= | 0.000000000000000000000242748349129879590000 |
| P(X=114)= | 0.000000000000000000000112003713975088270000 |
| P(X=115)= | 0.000000000000000000000051256195663354840000 |
| P(X=116)= | 0.000000000000000000000023265996169637580000 |
| P(X=117)= | 0.000000000000000000000010475668907510505000 |
| P(X=118)= | 0.000000000000000000000004678968576389760600 |
| P(X=119)= | 0.000000000000000000000002073242429438405700 |
| P(X=120)= | 0.00000000000000000000000911391310423658470  |
| P(X=121)= | 0.000000000000000000000000397500463282703210 |
| P(X=122)= | 0.000000000000000000000000172016992523061940 |
| P(X=123)= | 0.000000000000000000000000073863327959484419 |
| P(X=124)= | 0.000000000000000000000000031472620428597855 |
| P(X=125)= | 0.000000000000000000000000013307791586122651 |
| P(X=126)= | 0.000000000000000000000000005584322671676333 |
| P(X=127)= | 0.000000000000000000000000002325672960569946 |
| P(X=128)= | 0.000000000000000000000000000961307707462164 |
| P(X=129)= | 0.000000000000000000000000000394397067783957 |
| P(X=130)= | 0.000000000000000000000000000160614238433078 |
| P(X=131)= | 0.000000000000000000000000000064928439693924 |
| P(X=132)= | 0.000000000000000000000000000026055997098379 |
| P(X=133)= | 0.000000000000000000000000000010380619798836 |
| P(X=134)= | 0.00000000000000000000000000004105845260203  |
| P(X=135)= | 0.000000000000000000000000000001612375616843 |
| P(X=136)= | 0.00000000000000000000000000000628687259695  |
| P(X=137)= | 0.00000000000000000000000000000243404234078  |
| P(X=138)= | 0.00000000000000000000000000000093576471012  |
| P(X=139)= | 0.00000000000000000000000000000035724823470  |
| P(X=140)= | 0.00000000000000000000000000000013544345986  |
| P(X=141)= | 0.00000000000000000000000000000005099762220  |
| P(X=142)= | 0.00000000000000000000000000000001907062709  |
| P(X=143)= | 0.0000000000000000000000000000000708308079   |
| P(X=144)= | 0.0000000000000000000000000000000261300600   |
| P(X=145)= | 0.0000000000000000000000000000000095749877   |



















6.3.3)  $p \sim \text{beta}(\alpha = 5, \beta = 5), X|p \sim \text{Geometric}(p)$ .

| X~Geometric(p) p~beta(alpha=5.000000,beta=5.000000) |                                            |
|-----------------------------------------------------|--------------------------------------------|
| P(X=x)=                                             | marginal probability                       |
| P(X=0)=                                             | 0.5000000000000007550000000000000000000000 |
| P(X=1)=                                             | 0.2272727272727273800000000000000000000000 |
| P(X=2)=                                             | 0.1136363636363622000000000000000000000000 |
| P(X=3)=                                             | 0.0611888111888097690000000000000000000000 |
| P(X=4)=                                             | 0.0349650349650338990000000000000000000000 |
| P(X=5)=                                             | 0.0209790209790202100000000000000000000000 |
| P(X=6)=                                             | 0.0131118881118875450000000000000000000000 |
| P(X=7)=                                             | 0.0084841628959271623000000000000000000000 |
| P(X=8)=                                             | 0.0056561085972847902000000000000000000000 |
| P(X=9)=                                             | 0.0038699690402474790000000000000000000000 |
| P(X=10)=                                            | 0.0027089783281732285000000000000000000000 |
| P(X=11)=                                            | 0.0019349845201237393000000000000000000000 |
| P(X=12)=                                            | 0.0014072614691809002000000000000000000000 |
| P(X=13)=                                            | 0.0010401497815684883000000000000000000000 |
| P(X=14)=                                            | 0.0007801123361763636700000000000000000000 |
| P(X=15)=                                            | 0.0005928853754940375800000000000000000000 |
| P(X=16)=                                            | 0.0004560656734569525500000000000000000000 |
| P(X=17)=                                            | 0.0003547177460220740300000000000000000000 |
| P(X=18)=                                            | 0.0002787068004459151000000000000000000000 |
| P(X=19)=                                            | 0.0002210433244915881400000000000000000000 |
| P(X=20)=                                            | 0.0001768346595932707200000000000000000000 |
| P(X=21)=                                            | 0.0001426085964461861600000000000000000000 |
| P(X=22)=                                            | 0.0001158694846125261000000000000000000000 |
| P(X=23)=                                            | 0.0000948023055920666980000000000000000000 |
| P(X=24)=                                            | 0.0000780724869581727540000000000000000000 |
| P(X=25)=                                            | 0.0000646886320510572860000000000000000000 |
| P(X=26)=                                            | 0.0000539071933758811760000000000000000000 |
| P(X=27)=                                            | 0.0000451654863419543990000000000000000000 |
| P(X=28)=                                            | 0.0000380340937616457210000000000000000000 |
| P(X=29)=                                            | 0.0000321826947213925940000000000000000000 |
| P(X=30)=                                            | 0.0000273552905131836370000000000000000000 |
| P(X=31)=                                            | 0.0000233520772673519060000000000000000000 |
| P(X=32)=                                            | 0.0000200160662291587800000000000000000000 |
| P(X=33)=                                            | 0.0000172231267553226530000000000000000000 |
| P(X=34)=                                            | 0.0000148745185614150540000000000000000000 |
| P(X=35)=                                            | 0.0000128912494198930070000000000000000000 |
| P(X=36)=                                            | 0.0000112097821042548140000000000000000000 |
| P(X=37)=                                            | 0.0000097787460909456913000000000000000000 |
| P(X=38)=                                            | 0.0000085564028295774655000000000000000000 |
| P(X=39)=                                            | 0.0000075086800341189971000000000000000000 |
| P(X=40)=                                            | 0.0000066076384300247011000000000000000000 |
| P(X=41)=                                            | 0.0000058302692029629746000000000000000000 |
| P(X=42)=                                            | 0.0000051575458333903144000000000000000000 |
| P(X=43)=                                            | 0.0000045736727201763202000000000000000000 |
| P(X=44)=                                            | 0.0000040654868623789416000000000000000000 |
| P(X=45)=                                            | 0.0000036219792046648749000000000000000000 |

|          |                                            |
|----------|--------------------------------------------|
| P(X=46)= | 0.0000032339100041650507000000000000000000 |
| P(X=47)= | 0.0000028934984247792565000000000000000000 |
| P(X=48)= | 0.0000025941710015262300000000000000000000 |
| P(X=49)= | 0.0000023303570013710139000000000000000000 |
| P(X=50)= | 0.0000020973213012339089000000000000000000 |
| P(X=51)= | 0.0000018910274027518809000000000000000000 |
| P(X=52)= | 0.0000017080247508726658000000000000000000 |
| P(X=53)= | 0.0000015453557269800275000000000000000000 |
| P(X=54)= | 0.0000014004786275756475000000000000000000 |
| P(X=55)= | 0.0000012712036773378928000000000000000000 |
| P(X=56)= | 0.0000011556397066708050000000000000000000 |
| P(X=57)= | 0.0000010521495836853590000000000000000000 |
| P(X=58)= | 0.0000009593128557131138700000000000000000 |
| P(X=59)= | 0.0000008758943465206682700000000000000000 |
| P(X=60)= | 0.0000008008176882474641900000000000000000 |
| P(X=61)= | 0.0000007331429540293647100000000000000000 |
| P(X=62)= | 0.0000006720477078602478600000000000000000 |
| P(X=63)= | 0.0000006168109099539237800000000000000000 |
| P(X=64)= | 0.0000005667992145522520600000000000000000 |
| P(X=65)= | 0.0000005214552773880684400000000000000000 |
| P(X=66)= | 0.0000004802877554890057000000000000000000 |
| P(X=67)= | 0.0000004428627355807699400000000000000000 |
| P(X=68)= | 0.0000004087963713053227400000000000000000 |
| P(X=69)= | 0.0000003777485456365607900000000000000000 |
| P(X=70)= | 0.0000003494174047138157000000000000000000 |
| P(X=71)= | 0.0000003235346339942706800000000000000000 |
| P(X=72)= | 0.0000002998613680922484300000000000000000 |
| P(X=73)= | 0.0000002781846426879866000000000000000000 |
| P(X=74)= | 0.0000002583143110674137200000000000000000 |
| P(X=75)= | 0.0000002400803596979458800000000000000000 |
| P(X=76)= | 0.0000002233305671608774400000000000000000 |
| P(X=77)= | 0.0000002079284590808142800000000000000000 |
| P(X=78)= | 0.0000001937515186889379500000000000000000 |
| P(X=79)= | 0.0000001806896185526024200000000000000000 |
| P(X=80)= | 0.0000001686436439824262800000000000000000 |
| P(X=81)= | 0.0000001575242828407250600000000000000000 |
| P(X=82)= | 0.0000001472509600467620800000000000000000 |
| P(X=83)= | 0.0000001377508981082592600000000000000000 |
| P(X=84)= | 0.0000001289582875907080400000000000000000 |
| P(X=85)= | 0.0000001208135536376082100000000000000000 |
| P(X=86)= | 0.0000001132627065352552700000000000000000 |
| P(X=87)= | 0.0000001062567659248248300000000000000000 |
| P(X=88)= | 0.0000000997512496437107690000000000000000 |
| P(X=89)= | 0.0000000937057193622713250000000000000000 |
| P(X=90)= | 0.0000000880833762005326110000000000000000 |
| P(X=91)= | 0.0000000828507003866372570000000000000000 |
| P(X=92)= | 0.0000000779771297756564740000000000000000 |
| P(X=93)= | 0.0000000734347727013439050000000000000000 |
| P(X=94)= | 0.0000000691981511993410650000000000000000 |
| P(X=95)= | 0.0000000652439711308049680000000000000000 |



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|-----------|--------------------------------------------|
| P(X=96)=  | 0.0000000615509161611348950000000000000000 |
| P(X=97)=  | 0.0000000580994629184521300000000000000000 |
| P(X=98)=  | 0.0000000548717149785358820000000000000000 |
| P(X=99)=  | 0.0000000518512536035684840000000000000000 |
| P(X=100)= | 0.0000000490230034070082440000000000000000 |
| P(X=101)= | 0.0000000463731113309515020000000000000000 |
| P(X=102)= | 0.0000000438888375096484560000000000000000 |
| P(X=103)= | 0.0000000415584567569217180000000000000000 |
| P(X=104)= | 0.0000000393711695591869120000000000000000 |
| P(X=105)= | 0.0000000373170215821838100000000000000000 |
| P(X=106)= | 0.0000000353868308106896390000000000000000 |
| P(X=107)= | 0.0000000335721215383444490000000000000000 |
| P(X=108)= | 0.0000000318650645109690010000000000000000 |
| P(X=109)= | 0.0000000302584226028509580000000000000000 |
| P(X=110)= | 0.0000000287455014727064870000000000000000 |
| P(X=111)= | 0.0000000273201047054628870000000000000000 |
| P(X=112)= | 0.0000000259764929986349390000000000000000 |
| P(X=113)= | 0.0000000247093469986996140000000000000000 |
| P(X=114)= | 0.0000000235137334342445520000000000000000 |
| P(X=115)= | 0.0000000223850742293989800000000000000000 |
| P(X=116)= | 0.0000000213191183137114350000000000000000 |
| P(X=117)= | 0.0000000203119158736917440000000000000000 |
| P(X=118)= | 0.0000000193597948171105880000000000000000 |
| P(X=119)= | 0.0000000184593392442199200000000000000000 |
| P(X=120)= | 0.0000000176073697406387550000000000000000 |
| P(X=121)= | 0.0000000168009253250351680000000000000000 |
| P(X=122)= | 0.0000000160372469011681980000000000000000 |
| P(X=123)= | 0.0000000153137620785573440000000000000000 |
| P(X=124)= | 0.0000000146280712392172030000000000000000 |
| P(X=125)= | 0.0000000139779347396947090000000000000000 |
| P(X=126)= | 0.0000000133612611482358580000000000000000 |
| P(X=127)= | 0.0000000127760964264136300000000000000000 |
| P(X=128)= | 0.0000000122206139730895850000000000000000 |
| P(X=129)= | 0.0000000116931054562638950000000000000000 |
| P(X=130)= | 0.0000000111919723652794960000000000000000 |
| P(X=131)= | 0.0000000107157182220744670000000000000000 |
| P(X=132)= | 0.0000000102629413957879800000000000000000 |
| P(X=133)= | 0.0000000098323284700889394000000000000000 |
| P(X=134)= | 0.0000000094226481171669472000000000000000 |
| P(X=135)= | 0.0000000090327454364549800000000000000000 |
| P(X=136)= | 0.0000000086615367198867235000000000000000 |
| P(X=137)= | 0.0000000083080046088693470000000000000000 |
| P(X=138)= | 0.0000000079711936112108892000000000000000 |
| P(X=139)= | 0.0000000076502059490129412000000000000000 |
| P(X=140)= | 0.0000000073441977110508729000000000000000 |
| P(X=141)= | 0.0000000070523752854446468000000000000000 |
| P(X=142)= | 0.0000000067739920504913527000000000000000 |
| P(X=143)= | 0.0000000065083453034117374000000000000000 |
| P(X=144)= | 0.0000000062547734084721006000000000000000 |
| P(X=145)= | 0.0000000060126531474974801000000000000000 |

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|-----------|--------------------------------------------|
| P(X=146)= | 0.0000000057813972572076191000000000000000 |
| P(X=147)= | 0.0000000055604521390962797000000000000000 |
| P(X=148)= | 0.0000000053492957287493856000000000000000 |
| P(X=149)= | 0.0000000051474355125686847000000000000000 |
| P(X=150)= | 0.0000000049544066808459065000000000000000 |
| P(X=151)= | 0.0000000047697704070241103000000000000000 |
| P(X=152)= | 0.0000000045931122437995554000000000000000 |
| P(X=153)= | 0.0000000044240406274619465000000000000000 |
| P(X=154)= | 0.0000000042621854825533670000000000000000 |
| P(X=155)= | 0.0000000041071969195500125000000000000000 |
| P(X=156)= | 0.0000000039587440188419877000000000000000 |
| P(X=157)= | 0.0000000038165136948103408000000000000000 |
| P(X=158)= | 0.0000000036802096342800127000000000000000 |
| P(X=159)= | 0.0000000035495513040675064000000000000000 |
| P(X=160)= | 0.0000000034242730227461028000000000000000 |
| P(X=161)= | 0.0000000033041230921220713000000000000000 |
| P(X=162)= | 0.0000000031888629842559887000000000000000 |
| P(X=163)= | 0.0000000030782665801763951000000000000000 |
| P(X=164)= | 0.0000000029721194567207024000000000000000 |
| P(X=165)= | 0.0000000028702182182032313000000000000000 |
| P(X=166)= | 0.0000000027723698698540688000000000000000 |
| P(X=167)= | 0.0000000026783912301966818000000000000000 |
| P(X=168)= | 0.0000000025881083797393056000000000000000 |
| P(X=169)= | 0.0000000025013561435456236000000000000000 |
| P(X=170)= | 0.0000000024179776054261361000000000000000 |
| P(X=171)= | 0.0000000023378236516538223000000000000000 |
| P(X=172)= | 0.0000000022607525422573579000000000000000 |
| P(X=173)= | 0.0000000021866295080837112000000000000000 |
| P(X=174)= | 0.0000000021153263719492827000000000000000 |
| P(X=175)= | 0.0000000020467211923172318000000000000000 |
| P(X=176)= | 0.0000000019806979280476814000000000000000 |
| P(X=177)= | 0.0000000019171461228684376000000000000000 |
| P(X=178)= | 0.0000000018559606083075648000000000000000 |
| P(X=179)= | 0.0000000017970412239156154000000000000000 |
| P(X=180)= | 0.0000000017402925536854763000000000000000 |
| P(X=181)= | 0.0000000016856236776522522000000000000000 |
| P(X=182)= | 0.0000000016329479377244060000000000000000 |
| P(X=183)= | 0.0000000015821827168612999000000000000000 |
| P(X=184)= | 0.0000000015332492307716056000000000000000 |
| P(X=185)= | 0.0000000014860723313620524000000000000000 |
| P(X=186)= | 0.0000000014405803212171278000000000000000 |
| P(X=187)= | 0.0000000013967047784377600000000000000000 |
| P(X=188)= | 0.0000000013543803912111958000000000000000 |
| P(X=189)= | 0.0000000013135448015252682000000000000000 |
| P(X=190)= | 0.0000000012741384574783480000000000000000 |
| P(X=191)= | 0.0000000012361044736718638000000000000000 |
| P(X=192)= | 0.0000000011993884992052083000000000000000 |
| P(X=193)= | 0.0000000011639385928236126000000000000000 |
| P(X=194)= | 0.0000000011297051047982484000000000000000 |
| P(X=195)= | 0.0000000010966405651444816000000000000000 |

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|-----------|--------------------------------------------|
| P(X=196)= | 0.0000000010646995778090482000000000000000 |
| P(X=197)= | 0.0000000010338387204801251000000000000000 |
| P(X=198)= | 0.0000000010040164496959260000000000000000 |
| P(X=199)= | 0.0000000009751930109475608200000000000000 |
| P(X=200)= | 0.0000000009473303534908078400000000000000 |
| P(X=201)= | 0.0000000009203920495989714600000000000000 |
| P(X=202)= | 0.0000000008943432180054496900000000000000 |
| P(X=203)= | 0.0000000008691504512999783200000000000000 |
| P(X=204)= | 0.0000000008447817470568368800000000000000 |
| P(X=205)= | 0.0000000008212064424867265700000000000000 |
| P(X=206)= | 0.0000000007983951524165736900000000000000 |
| P(X=207)= | 0.0000000007763197104132007200000000000000 |
| P(X=208)= | 0.0000000007549531128778265600000000000000 |
| P(X=209)= | 0.0000000007342694659486048200000000000000 |
| P(X=210)= | 0.0000000007142439350580392900000000000000 |
| P(X=211)= | 0.0000000006948526970011141400000000000000 |
| P(X=212)= | 0.0000000006760728943784143000000000000000 |
| P(X=213)= | 0.0000000006578825922864743100000000000000 |
| P(X=214)= | 0.0000000006402607371349054800000000000000 |
| P(X=215)= | 0.0000000006231871174769415400000000000000 |
| P(X=216)= | 0.0000000006066423267464356300000000000000 |
| P(X=217)= | 0.0000000005906077278005729800000000000000 |
| P(X=218)= | 0.0000000005750654191732231800000000000000 |
| P(X=219)= | 0.0000000005599982029493301300000000000000 |
| P(X=220)= | 0.0000000005453895541757277500000000000000 |
| P(X=221)= | 0.0000000005312235917286001900000000000000 |
| P(X=222)= | 0.0000000005174850505622034500000000000000 |
| P(X=223)= | 0.0000000005041592552677593300000000000000 |
| P(X=224)= | 0.0000000004912320948752861800000000000000 |
| P(X=225)= | 0.0000000004786899988349285400000000000000 |
| P(X=226)= | 0.0000000004665199141178024600000000000000 |
| P(X=227)= | 0.0000000004547092833796629800000000000000 |
| P(X=228)= | 0.0000000004432460241338221800000000000000 |
| P(X=229)= | 0.0000000004321185088826293700000000000000 |
| P(X=230)= | 0.0000000004213155461595961800000000000000 |
| P(X=231)= | 0.0000000004108263624368177200000000000000 |
| P(X=232)= | 0.0000000004006405848547802200000000000000 |
| P(X=233)= | 0.0000000003907482247339539700000000000000 |
| P(X=234)= | 0.0000000003811396618297095800000000000000 |
| P(X=235)= | 0.0000000003718056292941571200000000000000 |
| P(X=236)= | 0.0000000003627371993104295900000000000000 |
| P(X=237)= | 0.0000000003539257693667265100000000000000 |
| P(X=238)= | 0.0000000003453630491391764800000000000000 |
| P(X=239)= | 0.0000000003370410479541686000000000000000 |
| P(X=240)= | 0.0000000003289520628023407400000000000000 |
| P(X=241)= | 0.0000000003210886687785480000000000000000 |
| P(X=242)= | 0.0000000003134436986179379400000000000000 |
| P(X=243)= | 0.0000000003060102512189679200000000000000 |
| P(X=244)= | 0.0000000002987816626065828300000000000000 |
| P(X=245)= | 0.0000000002917515058384605000000000000000 |

|           |                                            |
|-----------|--------------------------------------------|
| P(X=246)= | 0.0000000002849135799194658200000000000000 |
| P(X=247)= | 0.0000000002782619010099381700000000000000 |
| P(X=248)= | 0.0000000002717906940088079700000000000000 |
| P(X=249)= | 0.0000000002654943844941961400000000000000 |
| P(X=250)= | 0.0000000002593675910049774200000000000000 |
| P(X=251)= | 0.0000000002534051176476530000000000000000 |
| P(X=252)= | 0.0000000002476019470136159300000000000000 |
| P(X=253)= | 0.0000000002419532333926524800000000000000 |
| P(X=254)= | 0.0000000002364542962692152300000000000000 |
| P(X=255)= | 0.0000000002311006140886608000000000000000 |
| P(X=256)= | 0.0000000002258878182812789700000000000000 |
| P(X=257)= | 0.0000000002208116875325174300000000000000 |
| P(X=258)= | 0.0000000002158681422883881700000000000000 |
| P(X=259)= | 0.0000000002110532394855559000000000000000 |
| P(X=260)= | 0.0000000002063631674961300600000000000000 |
| P(X=261)= | 0.0000000002017942412776497800000000000000 |
| P(X=262)= | 0.0000000001973428977192032500000000000000 |
| P(X=263)= | 0.0000000001930056911750762800000000000000 |
| P(X=264)= | 0.0000000001887792891776968900000000000000 |
| P(X=265)= | 0.0000000001846604683220692600000000000000 |
| P(X=266)= | 0.0000000001806461103142294300000000000000 |
| P(X=267)= | 0.0000000001767331981766236300000000000000 |
| P(X=268)= | 0.0000000001729188126036342200000000000000 |
| P(X=269)= | 0.0000000001692001284607913700000000000000 |
| P(X=270)= | 0.0000000001655744114215198600000000000000 |
| P(X=271)= | 0.0000000001620390147355396500000000000000 |
| P(X=272)= | 0.0000000001585913761233248600000000000000 |
| P(X=273)= | 0.0000000001552290147912711500000000000000 |
| P(X=274)= | 0.0000000001519495285624724100000000000000 |
| P(X=275)= | 0.0000000001487505911182406200000000000000 |
| P(X=276)= | 0.0000000001456299493457211300000000000000 |
| P(X=277)= | 0.0000000001425854207871652500000000000000 |
| P(X=278)= | 0.0000000001396148911866303600000000000000 |
| P(X=279)= | 0.0000000001367163121300527800000000000000 |
| P(X=280)= | 0.0000000001338876987748409600000000000000 |
| P(X=281)= | 0.0000000001311271276652874300000000000000 |
| P(X=282)= | 0.0000000001284327346302779500000000000000 |
| P(X=283)= | 0.0000000001258027127599274300000000000000 |
| P(X=284)= | 0.0000000001232353104579185800000000000000 |
| P(X=285)= | 0.0000000001207288295664659500000000000000 |
| P(X=286)= | 0.0000000001182816235609602800000000000000 |
| P(X=287)= | 0.0000000001158920958114764300000000000000 |
| P(X=288)= | 0.0000000001135586979084572600000000000000 |
| P(X=289)= | 0.0000000001112799280499901400000000000000 |
| P(X=290)= | 0.0000000001090543294882208300000000000000 |
| P(X=291)= | 0.0000000001068804890325393000000000000000 |
| P(X=292)= | 0.0000000001047570356072874600000000000000 |
| P(X=293)= | 0.0000000001026826388618270300000000000000 |
| P(X=294)= | 0.0000000001006560078309002800000000000000 |
| P(X=295)= | 0.0000000000986758896433064540000000000000 |

|           |                                             |
|-----------|---------------------------------------------|
| P(X=296)= | 0.0000000000967410682769974320000000000000  |
| P(X=297)= | 0.0000000000948503633587801910000000000000  |
| P(X=298)= | 0.0000000000930026290068863310000000000000  |
| P(X=299)= | 0.0000000000911967527147441800000000000000  |
| P(X=300)= | 0.0000000000894316542743599570000000000000  |
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| P(X=1080)= | 0.000000000000045703461967207777000000000 |
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| P(X=1112)= | 0.00000000000003840430120760352200000000  |
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| P(X=1212)= | 0.000000000000022984386717317361000000000 |
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| P(X=3968)= | 0.0000000000000000191573360393037930000000 |
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| P(X=3971)= | 0.0000000000000000190708914498032920000000 |
| P(X=3972)= | 0.0000000000000000190421778805929690000000 |
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| P(X=4141)= | 0.0000000000000000148402391633996040000000 |
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| P(X=4195)= | 0.0000000000000000137334528027994230000000 |



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| P(X=4411)= | 0.0000000000000000101711328742224690000000 |
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| P(X=4775)= | 0.0000000000000000063325764299673197000000 |
| P(X=4776)= | 0.0000000000000000063246621594154831000000 |
| P(X=4777)= | 0.0000000000000000063167594656538574000000 |
| P(X=4778)= | 0.0000000000000000063088683293302124000000 |
| P(X=4779)= | 0.0000000000000000063009887311286872000000 |
| P(X=4780)= | 0.0000000000000000062931206517697192000000 |
| P(X=4781)= | 0.0000000000000000062852640720099612000000 |
| P(X=4782)= | 0.0000000000000000062774189726422185000000 |
| P(X=4783)= | 0.0000000000000000062695853344953538000000 |
| P(X=4784)= | 0.0000000000000000062617631384342332000000 |
| P(X=4785)= | 0.0000000000000000062539523653596444000000 |
| P(X=4786)= | 0.0000000000000000062461529962082081000000 |
| P(X=4787)= | 0.0000000000000000062383650119523159000000 |
| P(X=4788)= | 0.0000000000000000062305883936000628000000 |
| P(X=4789)= | 0.0000000000000000062228231221951552000000 |
| P(X=4790)= | 0.0000000000000000062150691788168513000000 |
| P(X=4791)= | 0.0000000000000000062073265445798758000000 |
| P(X=4792)= | 0.0000000000000000061995952006343581000000 |
| P(X=4793)= | 0.0000000000000000061918751281657475000000 |
| P(X=4794)= | 0.0000000000000000061841663083947472000000 |
| P(X=4795)= | 0.0000000000000000061764687225772286000000 |

|            |                                            |
|------------|--------------------------------------------|
| P(X=4796)= | 0.0000000000000000061687823520041798000000 |
| P(X=4797)= | 0.0000000000000000061611071780016153000000 |
| P(X=4798)= | 0.0000000000000000061534431819305068000000 |
| P(X=4799)= | 0.0000000000000000061457903451867130000000 |
| P(X=4800)= | 0.0000000000000000061381486492009045000000 |
| P(X=4801)= | 0.0000000000000000061305180754384952000000 |
| P(X=4802)= | 0.0000000000000000061228986053995645000000 |
| P(X=4803)= | 0.0000000000000000061152902206187930000000 |
| P(X=4804)= | 0.0000000000000000061076929026653801000000 |
| P(X=4805)= | 0.0000000000000000061001066331429840000000 |
| P(X=4806)= | 0.0000000000000000060925313936896391000000 |
| P(X=4807)= | 0.0000000000000000060849671659776968000000 |
| P(X=4808)= | 0.0000000000000000060774139317137416000000 |
| P(X=4809)= | 0.0000000000000000060698716726385256000000 |
| P(X=4810)= | 0.0000000000000000060623403705269043000000 |
| P(X=4811)= | 0.0000000000000000060548200071877491000000 |
| P(X=4812)= | 0.0000000000000000060473105644639025000000 |
| P(X=4813)= | 0.0000000000000000060398120242320778000000 |
| P(X=4814)= | 0.0000000000000000060323243684028072000000 |
| P(X=4815)= | 0.0000000000000000060248475789203725000000 |
| P(X=4816)= | 0.0000000000000000060173816377627279000000 |
| P(X=4817)= | 0.0000000000000000060099265269414296000000 |
| P(X=4818)= | 0.0000000000000000060024822285015744000000 |
| P(X=4819)= | 0.0000000000000000059950487245217246000000 |
| P(X=4820)= | 0.0000000000000000059876259971138384000000 |
| P(X=4821)= | 0.0000000000000000059802140284232024000000 |
| P(X=4822)= | 0.0000000000000000059728128006283578000000 |
| P(X=4823)= | 0.0000000000000000059654222959410445000000 |
| P(X=4824)= | 0.0000000000000000059580424966061196000000 |
| P(X=4825)= | 0.0000000000000000059506733849014877000000 |
| P(X=4826)= | 0.0000000000000000059433149431380502000000 |
| P(X=4827)= | 0.0000000000000000059359671536596109000000 |
| P(X=4828)= | 0.0000000000000000059286299988428314000000 |
| P(X=4829)= | 0.0000000000000000059213034610971520000000 |
| P(X=4830)= | 0.0000000000000000059139875228647260000000 |
| P(X=4831)= | 0.0000000000000000059066821666203476000000 |
| P(X=4832)= | 0.0000000000000000058993873748713943000000 |
| P(X=4833)= | 0.0000000000000000058921031301577504000000 |
| P(X=4834)= | 0.0000000000000000058848294150517506000000 |
| P(X=4835)= | 0.0000000000000000058775662121580929000000 |
| P(X=4836)= | 0.000000000000000005870313504113797000000  |
| P(X=4837)= | 0.0000000000000000058630712735881165000000 |
| P(X=4838)= | 0.0000000000000000058558395032824965000000 |
| P(X=4839)= | 0.0000000000000000058486181759304690000000 |
| P(X=4840)= | 0.0000000000000000058414072742976295000000 |
| P(X=4841)= | 0.0000000000000000058342067811815457000000 |
| P(X=4842)= | 0.0000000000000000058270166794116952000000 |
| P(X=4843)= | 0.0000000000000000058198369518493980000000 |
| P(X=4844)= | 0.0000000000000000058126675813877660000000 |
| P(X=4845)= | 0.0000000000000000058055085509516185000000 |

|            |                                            |
|------------|--------------------------------------------|
| P(X=4846)= | 0.0000000000000000057983598434974237000000 |
| P(X=4847)= | 0.0000000000000000057912214420132361000000 |
| P(X=4848)= | 0.0000000000000000057840933295186319000000 |
| P(X=4849)= | 0.0000000000000000057769754890646412000000 |
| P(X=4850)= | 0.0000000000000000057698679037336850000000 |
| P(X=4851)= | 0.0000000000000000057627705566395000000000 |
| P(X=4852)= | 0.0000000000000000057556834309271046000000 |
| P(X=4853)= | 0.0000000000000000057486065097726957000000 |
| P(X=4854)= | 0.0000000000000000057415397763836056000000 |
| P(X=4855)= | 0.0000000000000000057344832139982417000000 |
| P(X=4856)= | 0.0000000000000000057274368058860136000000 |
| P(X=4857)= | 0.0000000000000000057204005353472746000000 |
| P(X=4858)= | 0.0000000000000000057133743857132480000000 |
| P(X=4859)= | 0.0000000000000000057063583403459745000000 |
| P(X=4860)= | 0.0000000000000000056993523826382542000000 |
| P(X=4861)= | 0.0000000000000000056923564960135580000000 |
| P(X=4862)= | 0.0000000000000000056853706639259959000000 |
| P(X=4863)= | 0.0000000000000000056783948698602366000000 |
| P(X=4864)= | 0.0000000000000000056714290973314436000000 |
| P(X=4865)= | 0.0000000000000000056644733298852204000000 |
| P(X=4866)= | 0.0000000000000000056575275510975497000000 |
| P(X=4867)= | 0.0000000000000000056505917445747158000000 |
| P(X=4868)= | 0.0000000000000000056436658939532589000000 |
| P(X=4869)= | 0.0000000000000000056367499828999050000000 |
| P(X=4870)= | 0.0000000000000000056298439951115068000000 |
| P(X=4871)= | 0.0000000000000000056229479143149862000000 |
| P(X=4872)= | 0.0000000000000000056160617242672566000000 |
| P(X=4873)= | 0.0000000000000000056091854087551827000000 |
| P(X=4874)= | 0.0000000000000000056023189515955070000000 |
| P(X=4875)= | 0.0000000000000000055954623366347857000000 |
| P(X=4876)= | 0.0000000000000000055886155477493390000000 |
| P(X=4877)= | 0.0000000000000000055817785688451819000000 |
| P(X=4878)= | 0.0000000000000000055749513838579608000000 |
| P(X=4879)= | 0.0000000000000000055681339767529055000000 |
| P(X=4880)= | 0.0000000000000000055613263315247576000000 |
| P(X=4881)= | 0.0000000000000000055545284321977094000000 |
| P(X=4882)= | 0.0000000000000000055477402628253524000000 |
| P(X=4883)= | 0.0000000000000000055409618074906141000000 |
| P(X=4884)= | 0.0000000000000000055341930503056905000000 |
| P(X=4885)= | 0.0000000000000000055274339754119959000000 |
| P(X=4886)= | 0.0000000000000000055206845669801003000000 |
| P(X=4887)= | 0.0000000000000000055139448092096629000000 |
| P(X=4888)= | 0.0000000000000000055072146863293873000000 |
| P(X=4889)= | 0.0000000000000000055004941825969535000000 |
| P(X=4890)= | 0.0000000000000000054937832822989492000000 |
| P(X=4891)= | 0.0000000000000000054870819697508368000000 |
| P(X=4892)= | 0.0000000000000000054803902292968612000000 |
| P(X=4893)= | 0.0000000000000000054737080453100191000000 |
| P(X=4894)= | 0.0000000000000000054670354021919866000000 |
| P(X=4895)= | 0.0000000000000000054603722843730623000000 |



|            |                                              |
|------------|----------------------------------------------|
| P(X=4896)= | 0.0000000000000000054537186763121171000000   |
| P(X=4897)= | 0.0000000000000000054470745624965201000000   |
| P(X=4898)= | 0.0000000000000000054404399274420959000000   |
| P(X=4899)= | 0.0000000000000000054338147556930586000000   |
| P(X=4900)= | 0.0000000000000000054271990318219552000000   |
| P(X=4901)= | 0.0000000000000000054205927404296099000000   |
| P(X=4902)= | 0.0000000000000000054139958661450619000000   |
| P(X=4903)= | 0.0000000000000000054074083936255204000000   |
| P(X=4904)= | 0.0000000000000000054008303075562832000000   |
| P(X=4905)= | 0.0000000000000000053942615926507089000000   |
| P(X=4906)= | 0.0000000000000000053877022336501385000000   |
| P(X=4907)= | 0.0000000000000000053811522153238464000000   |
| P(X=4908)= | 0.0000000000000000053746115224689792000000   |
| P(X=4909)= | 0.0000000000000000053680801399105117000000   |
| P(X=4910)= | 0.0000000000000000053615580525011697000000   |
| P(X=4911)= | 0.0000000000000000053550452451213948000000   |
| P(X=4912)= | 0.0000000000000000053485417026792716000000   |
| P(X=4913)= | 0.0000000000000000053420474101104813000000   |
| P(X=4914)= | 0.0000000000000000053355623523782411000000   |
| P(X=4915)= | 0.0000000000000000053290865144732542000000   |
| P(X=4916)= | 0.0000000000000000053226198814136439000000   |
| P(X=4917)= | 0.0000000000000000053161624382449054000000   |
| P(X=4918)= | 0.0000000000000000053097141700398475000000   |
| P(X=4919)= | 0.0000000000000000053032750618985449000000   |
| P(X=4920)= | 0.0000000000000000052968450989482660000000   |
| P(X=4921)= | 0.0000000000000000052904242663434370000000   |
| P(X=4922)= | 0.00000000000000000528401254926557360000000  |
| P(X=4923)= | 0.00000000000000000527760993292322510000000  |
| P(X=4924)= | 0.00000000000000000527121640255193430000000  |
| P(X=4925)= | 0.00000000000000000526483194341417190000000  |
| P(X=4926)= | 0.00000000000000000525845654079927340000000  |
| P(X=4927)= | 0.00000000000000000525209018002340980000000  |
| P(X=4928)= | 0.00000000000000000524573284642950460000000  |
| P(X=4929)= | 0.00000000000000000523938452538720170000000  |
| P(X=4930)= | 0.00000000000000000523304520229279980000000  |
| P(X=4931)= | 0.00000000000000000522671486256919640000000  |
| P(X=4932)= | 0.00000000000000000522039349166585060000000  |
| P(X=4933)= | 0.00000000000000000521408107505870910000000  |
| P(X=4934)= | 0.00000000000000000520777759825015860000000  |
| P(X=4935)= | 0.00000000000000000520148304676898640000000  |
| P(X=4936)= | 0.00000000000000000519519740617030590000000  |
| P(X=4937)= | 0.00000000000000000518892066203551370000000  |
| P(X=4938)= | 0.00000000000000000518265279997224270000000  |
| P(X=4939)= | 0.00000000000000000517639380561429400000000  |
| P(X=4940)= | 0.000000000000000005170143664621600200000000 |
| P(X=4941)= | 0.000000000000000005163902362680159800000000 |
| P(X=4942)= | 0.000000000000000005157669885501986400000000 |
| P(X=4943)= | 0.000000000000000005151446218825067800000000 |
| P(X=4944)= | 0.000000000000000005145231348413297500000000 |
| P(X=4945)= | 0.000000000000000005139025260056438700000000 |

|            |                                            |
|------------|--------------------------------------------|
| P(X=4946)= | 0.0000000000000000051328279395700487000000 |
| P(X=4947)= | 0.0000000000000000051266393727954604000000 |
| P(X=4948)= | 0.0000000000000000051204595455996967000000 |
| P(X=4949)= | 0.0000000000000000051142884438754371000000 |
| P(X=4950)= | 0.0000000000000000051081260535409667000000 |
| P(X=4951)= | 0.0000000000000000051019723605401177000000 |
| P(X=4952)= | 0.0000000000000000050958273508422139000000 |
| P(X=4953)= | 0.0000000000000000050896910104420414000000 |
| P(X=4954)= | 0.0000000000000000050835633253597655000000 |
| P(X=4955)= | 0.0000000000000000050774442816409035000000 |
| P(X=4956)= | 0.0000000000000000050713338653562690000000 |
| P(X=4957)= | 0.0000000000000000050652320626019133000000 |
| P(X=4958)= | 0.0000000000000000050591388594990785000000 |
| P(X=4959)= | 0.0000000000000000050530542421941482000000 |
| P(X=4960)= | 0.0000000000000000050469781968586012000000 |
| P(X=4961)= | 0.0000000000000000050409107096889509000000 |
| P(X=4962)= | 0.0000000000000000050348517669067014000000 |
| P(X=4963)= | 0.0000000000000000050288013547582988000000 |
| P(X=4964)= | 0.0000000000000000050227594595150703000000 |
| P(X=4965)= | 0.0000000000000000050167260674731946000000 |
| P(X=4966)= | 0.0000000000000000050107011649536288000000 |
| P(X=4967)= | 0.0000000000000000050046847383020742000000 |
| P(X=4968)= | 0.0000000000000000049986767738889211000000 |
| P(X=4969)= | 0.0000000000000000049926772581092023000000 |
| P(X=4970)= | 0.0000000000000000049866861773825364000000 |
| P(X=4971)= | 0.0000000000000000049807035181530836000000 |
| P(X=4972)= | 0.0000000000000000049747292668895006000000 |
| P(X=4973)= | 0.0000000000000000049687634100848846000000 |
| P(X=4974)= | 0.0000000000000000049628059342567239000000 |
| P(X=4975)= | 0.0000000000000000049568568259468573000000 |
| P(X=4976)= | 0.0000000000000000049509160717214126000000 |
| P(X=4977)= | 0.0000000000000000049449836581707737000000 |
| P(X=4978)= | 0.0000000000000000049390595719095124000000 |
| P(X=4979)= | 0.0000000000000000049331437995763620000000 |
| P(X=4980)= | 0.0000000000000000049272363278341506000000 |
| P(X=4981)= | 0.0000000000000000049213371433697601000000 |
| P(X=4982)= | 0.0000000000000000049154462328940799000000 |
| P(X=4983)= | 0.0000000000000000049095635831419540000000 |
| P(X=4984)= | 0.0000000000000000049036891808721441000000 |
| P(X=4985)= | 0.0000000000000000048978230128672564000000 |
| P(X=4986)= | 0.0000000000000000048919650659337302000000 |
| P(X=4987)= | 0.0000000000000000048861153269017591000000 |
| P(X=4988)= | 0.0000000000000000048802737826252566000000 |
| P(X=4989)= | 0.0000000000000000048744404199818096000000 |
| P(X=4990)= | 0.0000000000000000048686152258726233000000 |
| P(X=4991)= | 0.0000000000000000048627981872224890000000 |
| P(X=4992)= | 0.0000000000000000048569892909797239000000 |
| P(X=4993)= | 0.0000000000000000048511885241161199000000 |
| P(X=4994)= | 0.0000000000000000048453958736269143000000 |
| P(X=4995)= | 0.0000000000000000048396113265307247000000 |

|              |                                            |
|--------------|--------------------------------------------|
| $P(X=4996)=$ | 0.0000000000000000048338348698695161000000 |
| $P(X=4997)=$ | 0.0000000000000000048280664907085481000000 |
| $P(X=4998)=$ | 0.0000000000000000048223061761363278000000 |
| $P(X=4999)=$ | 0.0000000000000000048165539132645620000000 |
| $P(X=5000)=$ | 0.0000000000000000048108096892281196000000 |

$E(X)=$  1.2500000000 ,  $Var(X)=$  4.6874998000  
The summation of probability is 1.000000