	А	В	С	D	Е	F	G	Н	I	J	K	L	М	N	0	Р	Q	R	S	Т	U	V	W	Х	Υ	Z	AA
1	Aidan Chin																										
2	ECE 202 E8																										
3	8-Dec					(# of consecutive heads or tails)		coin flips																			
4	4 Simulating P(n), probability of n heads out of 20 throws					macrostate	trial #	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
5	from any pTails and up to 2000 trials				4	1	Н	Н	Н	Н	Т	Н	Т	Т	Т	Н	Н	Т	Н	Н	Н	Н	Т	Н	Т	Τ	
6	input # of trials (up to 2,000)	input pTails		# of coins	pHeads (q)	5	2	Н	Т	Н	Т	Н	Н	Н	Т	Т	Т	Н	Н	Т	Т	Т	Н	Н	Н	Н	Н
7	2000	0.5		20	0.5	4	3	Н	Н	Н	Н	Т	Н	Т	Н	Т	Н	Н	Т	Т	Т	Н	Т	Т	T	Н	Н
8						6	4	Т	Т	Н	Н	Н	Н	Т	Н	Н	Н	Н	Т	Т	Т	Т	Т	Т	Н	Н	Т
9	smallest macrostate	count T	count H	check pTails		7	5	Н	Н	Т	Н	Т	Т	Н	Н	Н	Т	Т	Т	Т	Т	Т	Т	Н	Т	Т	Т
10	1	15896	16104	0.00325		5	6	T	Т	Т	Т	Т	Н	Н	Т	Н	Н	Т	Н	Н	Н	Н	Н	Т	T	Т	Τ
11	largest macrostate	count trials				5	7	Т	Н	Т	Н	Т	Н	Т	Т	Т	Т	Т	Н	Н	Т	Т	Т	Н	Т	Н	Т
12	13	1				4	8	T	Н	Н	Н	Н	Т	Н	Н	Т	Н	Н	Т	Н	Т	Т	Н	Н	Н	Н	Т
13						5	9	T	Н	Н	Т	Т	Н	Т	Т	Н	Т	Н	Н	Н	Н	Н	Т	Н	Н	Н	Н
14		(simulation)	(simulation)			6	10	Т	Т	Т	Т	Т	Т	Н	Н	Т	Н	Т	Т	Т	Н	Н	Т	Н	Н	Н	Н
15	macrostate #	# of trials	prob p(n) %			4	11	Н	T	Н	Т	Н	Т	Н	Н	Н	Т	Т	Т	Т	Н	Н	Т	Н	Н	Т	Т
16	1	0	0.00%			5	12	T	Т	Т	Н	Т	Н	Н	Т	Н	Н	Т	Т	Т	Т	Т	Н	Н	T	Т	Н
17	2	35	1.75%			5	13	Н	Н	Т	Т	Н	Н	Н	Н	Н	Т	Т	Н	Т	Т	Н	Т	Н	Н	Т	Н
18	3	413	20.65%			3	14	Н	Н	Н	Т	Н	Н	Т	Т	Т	Н	Н	Т	Н	Т	Т	Н	Н	T	Н	Н
19	4	605	30.25%			4	15	Н	Т	Т	Т	Т	Н	Н	Т	Т	Н	Т	Т	Н	Т	Т	Т	Н	Н	Т	Τ
20	5	464	23.20%			4	16	T	T	Т	Н	T	Т	Н	Т	Н	Н	Н	Н	Т	Т	Т	Н	Н	T	Н	Т
21	6	233	11.65%			3	17	Н	Н	Т	Н	Н	Н	Т	Т	Н	Т	Н	Н	Т	Н	Т	Т	Н	T	Т	Н
22	7	130	6.50%			4	18	Н	Н	Н	Н	Т	Т	Н	Т	Т	Н	Н	Н	Н	Т	Н	Н	Т	Т	Т	Н
23	8	62	3.10%			8	19	Н	Т	Н	Т	Т	Т	Н	Т	Н	Т	Т	Т	Т	Т	Т	Т	Т	Н	Т	Τ
24	9	23	1.15%			3	20	Н	Н	Т	Н	Т	Т	Н	Т	Т	Т	Н	Н	Т	Т	Т	Н	Н	T	Н	Τ
25	10	20	1.00%			5	21	Н	Н	Н	Н	Н	T	Н	Н	T	T	Н	Т	T	Т	Н	Н	Н	T	Н	Н
26	11	10	0.50%			3	22	Н	Н	Н	Т	Н	Н	Н	Т	Н	Т	Т	Т	Н	Н	Т	Н	Т	T	Т	Н
27	12	4	0.20%			7	23	Н	Н	Т	Н	Н	Н	Н	Т	Н	Т	Н	Н	Т	Т	Т	Т	Т	Т	T	Н
28	13	1	0.05%			3	24	Т	Н	Т	Н	Т	Т	Н	Н	Н	Т	Т	Н	Т	Т	Н	Н	Т	Н	Т	Н
29						6	25	T	Т	Т	Т	Т	Т	Н	Т	Н	Т	Н	Н	Т	Т	Н	Н	Н	Т	Т	Т
30						4	26	Т	Т	Т	Т	Н	Т	Н	Т	Т	Н	Н	Н	Н	Т	Н	Т	Т	Н	Т	Н
31						4	27	T	Н	Т	Т	Н	Т	T	Н	Т	Н	Т	Н	Н	Н	Н	Т	Н	Н	T	Т

4			n .	,	,	6	н		
1 Aiden Chin	-	·		<u> </u>		- a	"		
2 ECE 202 ES									
7 ECE 202 ES									
				_	(# of consecutive heads or talls)		coin flips		
A Simulating P(n), probability	of n heads out of 20 throws from any pTails and up	to 2000 than			macrostate	trial #	military SEES minutes and death fact their	TOTAL STATE OF THE PARTY OF THE PARTY.	HORES AND
6 Input # of trials (up to 2,000)			# of coins		-ir(s-r'', "AMAX)MAX[IRICQUENCY[F]EX-AS-r' (COLUMN)E-AS-G)[Ir[EX-AS-c'r' (COLUMN)E-AS-G)[Ir]EX-AS-c'r' (COLUMN)E-AS-G)[Ir]EX-AS-c'r' (COLUMN)E-AS-G)[Ir]EX-AS-c'r' (COLUMN)E-AS-G)[Ir]EX-AS-c'r' (COLUMN)E-AS-G)[Ir]EX-AS-c'r' (COLUMN)E-AS-G)[Ir]EX-AS-c'r' (COLUMN)EX-AS[Ir]EX-AS-G)[Ir]EX-AS-c'r' (COLUMN)EX-AS[Ir]EX-AS-G)[Ir]EX-AS-G'r' (COLUMN)EX-AS[Ir]EX-AS-G)[Ir]EX-AS-G'r' (COLUMN)EX-AS[Ir]EX-AS-G)[Ir]EX-AS-G'r' (COLUMN)EX-AS[Ir]EX-AS-G)[Ir]EX-AS-G'R' (COLUMN)EX-AS[Ir]EX-AS-G)[Ir]EX-AS-G'R' (COLUMN)EX-AS[Ir]EX-AS-G)[Ir]EX-AS-G'R' (COLUMN)EX-AS[Ir]EX-AS-G [Ir]EX-AS-G'R' (COLUMN)EX-AS[Ir]EX-AS-G [Ir]EX-AS-G [Ir]	= IF(A7>0,1,"") =IF(OR)GS=A\$7,GS=""],"",GS+1)	*IF(\$G5="","",IF(RAND()<\$B\$7,"T","H"))	=if(\$G5="","",if(RAND()<\$8\$7,"T","H")) =if(\$G6="","",if(RAND()<\$8\$7,"T","H"))	-If(\$G5-"",";(F(RAND))<\$B\$7,"T","H")) -If(\$G6-"","',(F(RAND))<\$B\$7,"T","H"))
6 Input # of trials (up to 2,000)	input pTails		W OT COINS	pHeads (q)			*IF(\$G6="","",IF(RAND()<\$B\$7,"T","H"))		
7 2000 8	0.5		20	=1-87	-IFIG2-":"."MAXIMAX[IREQUENCY[F](F:AA7-")",COLIMIN(F:AA7]][F](F:AA7-")",COLIMIN(F:AA7]][F](F:AA7-")",COLIMIN(F:AA7][F](F:AA7-")",COLIMIN(F:AA7][F](F:AA7-")",COLIMIN(F:AA7][F](F:AA7-")",COLIMIN(F:AA7)[F](F:AA7-")",COLIMIN(F:AA7-"	HF(OR)G6*A\$7,G6*"L",G6+1) HF(OR)G7*A\$7,G7*"L",G7+1)	+IF(\$G7="","",IF(RAND()+\$B\$7,"T","H"))	-IF(\$G7-"","",IF(RAND():\\$8\$7,"T","H"))	+IF(\$G7+"","",IF(RAND()-\$B\$7,"T","H"))
	count T				-in(Ga-","",MAX)MAX(IREQUENCY(F(HE-AAB-"H",COLUMN)HE-AAE()) (F(HE-AAB-"H",COLUMN)HE-AAE()) (F(HE-AAB-"H",COLUMN)HE-AAB-"H",C		+IF(SGB="","",IF(RAND() <sb\$7,"t","h"))< td=""><td>-ir(\$GB-"","",ir(RAND()-\$B\$7,"T","H"))</td><td>+IF(\$GB="","",IF(RAND()<\$B\$7,"T","H"))</td></sb\$7,"t","h"))<>	-ir(\$GB-"","",ir(RAND()-\$B\$7,"T","H"))	+IF(\$GB="","",IF(RAND()<\$B\$7,"T","H"))
9 smallest macrostate 10 = MPN(G-G)		count H	check pTails		HFIGP=","",MAXI/MAX[FEQUENCY[F]H9-A49="H",COLUMN(H9-A49][JF[H9-A49-"H",COLUMN(H9-A49]]]][H9-A49-"T",COLUMN(H9-A49][JF[H9-A49-"T",COLUMN(H9-A49]]][H9-A49-"T",COLUMN(H9-A49][JF[H9-A49-"T",COLUMN(H9-A49]]][H9-A49-"T",COLUMN(H9-A49][JF[H9-A49-"T",COLUMN(H9-A49]]][H9-A49-"T",COLUMN(H9-A49][JF[H9-A49-"T",COLUMN(H9-A49]]][H9-A49-"T",COLUMN(H9-A49][JF[H9-A49-"T",COLUMN(H9-A49]]][H9-A49-"T",COLUMN(H9-A49][JF[H9-A49-"T",COLUMN(H9-A49]]][H9-A49-"T",COLUMN(H9-A49][JF[H9-A49-"T",COLUMN(H9-A49]]][H9-A49-"T",COLUMN(H9-A49][JF[H9-A49-"T",COLUMN(H9-A49]][H9-A49-"T",COLUMN(H9-A49][JF[H9-A49-"T",COLUMN(H9-A49]][H9-A49-"T",COLUMN(H9-A49][JF[H9-A49-"T",COLUMN(H9-A49]][H9-A49-"T",COLUMN(H9-A	<pre>~IF(OR(GE-A\$7,GE-""),"",GE+1)</pre>	+IF(SG9="","",IF(RAND()<\$8\$7,"T","H"))	+IF(\$G9="","",IF(RAND()+\$B\$7,"T","H"))	+IF(\$G9="","",IF(RAND():\$B\$7,"T","H"))
	= COUNTIF(EX,"T")	-COUNTR(LX,"H")	= 87-810/(810+C10)		-#F(GLO-"-"-GLACODH)(II)COAACODH)(II)COAACODH)(II)COAACODH)(II)COAACODH)(II)COAACODH)(II)COAACODH)(II)COAACODH)(II)COAACODH)(III)COACODH)(II	-IF(OR(G9-A\$7,G9-**),**,G9+1)	+(F(\$G10+""," JF(RAND()+\$B\$7,"T","H"))	+IF(\$G10="","",IF(RAND()<\$B\$7,"T","H"()	=IF(\$G10="",",IF(RAND()<\$B\$7,"T","H"))
11 largest macrostate 12 = MAXIT-0	count trials				-#FG11=",",MAXQMAXFREQUENCY[II]H1:AA11-"H",COLUMN(H1:AA11)[][II]H1:AA11-"H",COLUMN(H1:AA11)[][II]H1:AA11-"H",COLUMN(H1:AA11)[][II]	-IF(OR)G10=A\$7,G10=""),"",G10=1)	*IF(\$G11="","",IF(RAND()<\$B\$7,"T","H"()	=IF(\$G11="","",IF(RAND()+\$B\$7,"T","H"))	=IF(\$G11="","",IF(RAND()<\$B\$7,"T","H"))
12 * MAX(F3)	-CDUNT(HH)		_	+	-#F(G12-",",MAX/MAX[FREQUENCY #)H2-A432-"H",COLUMN H2:-A412();H(H2-A412-)*H",COLUMN H2:-A412();H(H2	=IF(OR)G11=A\$7,G11=""),"",G11=1)	*IF(\$G12="","",IF(RAND()<\$B\$7,"T","H"))	-ir(\$G12="","",ir(RAND()<\$B\$7,"T","H"))	+IF(\$G12="","",IF(RAND()+\$8\$7,"T","H"))
11					-#(GI)-""-"LEALE-HOMIND):""-"LEALE-HOMIND):""-"LEALE-HOMIND):""-"HOMIND):""-"-"HOMIND):""-"-"HOMIND):""-"-"HOMIND):""-"-"-"HOMIND):""-"-"HOMIND):""-"-"HOMIND):""-"-"HOMIND):""-"-"HOMIND):""-"-"HOMIND):""-"-"-"HOMIND:""-"-"-"HOMIND:""-"-"-"HOMIND:""-"-"-"HOMIND:""-"-"-"-"-"-"-"-"-"-"-"-"-"-"-"-"-"-"	-IF(OR)G12=A\$7,G12=""),"",G12+1)	*IF(\$G13*"",",IF(RAND()<\$8\$7,"T","H"()	+IF(\$G13+"",",IF(RAND()+\$B\$7,"T","H"))	=IF(SG13="","",IF(RAND():SBS7,"T","H"))
	(simulation)	(simulation)			-#F4E4F-","-MANAMANIPEZHT-S-HEALF-","-F4E8HT-","-F4E8HT-",",CLUMM\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	-IF(OR)G13-A\$7,G13+"),"",G13+1)	*IF(\$G14*"","",IF(RAND()<\$B\$7,"T","H"))	+IF(\$G14+"","",IF(RAND()+\$B\$7,"T","H"))	=IF(\$G14="","",IF(RAND()+\$B\$7,"T","H"))
15 macrostate #	# of trials	prob p(n) %			-#F(G15***,",MAX(MAX(FREQUENCY(F)):15:AA15**(H,COLUMN(H3:AA15)],(F(H3:AA15+)*H,COLUMN(H3:AA15)],(F(H3:AA15+)*H,COLUMN(H3:AA15)],(F)(H3:AA15+)*H,COLUMN(H3:AA15)],(F)(H3:AA15+)*H,COLUMN(H3:AA15)],(F)(H3:AA15+)*H,COLUMN(H3:AA15)],(F)(H3:AA15+)*H,COLUMN(H3:AA15)],(F)(H3:AA15+)*H,COLUMN(H3:AA15)],(F)(H3:AA15+)*H,COLUMN(H3:AA15)],(F)(H3:AA15+)*H,COLUMN(H3:AA15)],(F)(H3:AA15+)*H,COLUMN(H3:AA15)],(F)(H3:AA15+)*H,COLUMN(H3:AA15)],(F)(H3:AA15+)*H,COLUMN(H3:AA15)],(F)(H3:AA15+)*H,COLUMN(H3:AA15)],(F)(H3:AA15+)*H,COLUMN(H3:AA15)],(F)(H3:AA15+)*H,COLUMN(H3:AA15)],(F)(H3:AA15+)*H,COLUMN(H3:AA15)],(F)(H3:AA15+)*H,COLUMN(H3:AA15)],(F)(H3:AA15+)*H,COLUMN(H3:AA15+)*H,C	-IF(OR(G14-A\$7,G14+"),",G14+1)	*IF(\$G15*"","",IF(RAND()<\$B\$7,"T","H"))	+IF(\$G15+"","",IF(RAND()<\$B\$7,"T","H"))	+ir(\$G15+"","",ir(RAND()+\$B\$7,"T","H"))
16 + IF(A7>0,A10,"") 17 - IF(OR)(A16="" A16=A\$17) *** A16=1)	-IF(A16-",",COUNTIF(F.F.A16))	= IF(A16="",",B16/A\$7)			-#F-616-***." ASSAMANI(REA-BE)(#IY)/ARLIGA BE)(#IY)/ARLIGA BE)	-F(OR(G15-A\$7,G15-"),",G15+1)	*(F(\$G16*",", F(RAND()<\$8\$7,"T","H"))	+IF(\$G16+"","",IF(RAND()<\$B\$7,"T","H"()	*IF(\$G16***,**,IF(RAND()+\$B\$7,*T*,*H*))
	=IF(A17="","",COUNTIF(F:F,A17))	= IF(A17=""," B17/A\$7)			-#F(G17="","MAX(MAX(FREQUENCY(II)):G7-AA17="H",COLUMN(H37-AA17) , F(H37-AA17="H",COLUMN(H37-AA17) , F(H37-AA17="H",COLUMN(H37-AA17", F(H37-AA17="H",COLUMN(H37-AA17) , F(H37-AA17="H",COLUMN(H37-AA17) , F(H37-AA17="H",COLUMN(H37-AA17") , F(H37-AA17") , F(H37-AA17",COLUMN(H37-AA17") , F(H37-AA17",COLU	=F(OR(G16+A\$7,G16+"),",G16+1)	+IF(\$G17+"","",IF(RAND()<\$B\$7,"T","H"))	+IF(\$G17="","",IF(RAND()<\$8\$7,"T","H"))	=IF(\$G17="","",IF(RAND()<\$B\$7,"T","H"))
	=IF(A18="","",COUNTIF(F:F,A18))	= IF(A18="","",B18/A\$7)			-FF[G18-"","MAX[MAX[REQUENCY[F]:GBAA18-"H",COLUMN[H18-AA18]]][[H18-AA18-"H",COLUMN[H18-AA18]]]]]	-F(OR(G17+A\$7,G17+"),",G17+1)	*IF(5G18*"","",IF(RAND()<5857,"T","H"))	+IF(\$G18+"","",IF(RAND()<\$B\$7,"T","H"))	+ir(\$G18+"","",ir(RAND()+\$B\$7,"T","H"))
19 = IF(OR(A18="",A18=A\$12),"",A18=1) 20 = IF(OR(A19=",A19=A\$12) = A19=1)	=if(A19="","",COUNTIF(F:F,A19))	= IF(A19="","",B19/A\$7)			-#F[G19-***,***MAX[MAX[FRQUENCY[F]0]:28-A19-**H*,COLUMN[H19:AA19]UF[H19:AA19-**H*,COLUMN[H19:AA19]U[H19:AA19-**H*,COLUMN[H19:AA19]U[H19:AA19-**H*,COLUMN[H19:AA19]U[H19:AA19-**H*,COLUMN[H19:AA19]U[H19:AA19-**H*,COLUMN[H19:AA19]U[H19:AA19-**H*,COLUMN[H19:AA19]U[H19:AA19-**H*,COLUMN[H19:AA19-**H*,COLUMN[H19:AA19-**H*,COLUMN[H19:AA19]U[H19:AA19-**H*,COLUMN[H19:AA19-**H*,COLUMN[H19:AA19]U[H19:AA19-**H*,COLUMN[H19:AA19]U[H19:AA19-**H*,COLUMN[H19:AA19]U[H19:AA19-**H*,COLUMN[H19:AA19]U[H19:AA19-**H*,COLUMN[H19:AA19]U[H19:AA19-**H*,COLUMN[H19:AA19]U[H19:AA19-**H*,COLUMN[H19:AA19]U[H19:AA19-**H*,COLUMN[H19:AA19]U[H19:AA19-**H*,COLUMN[H19:AA19]U[H19:AA19-**H*,COLUMN[H19:AA19]U[H19:AA19]U[H19:AA19]U[H19:AA19-**H*,COLUMN[H19:AA19]U[H19:AA19-**H*,COLUMN[H19:AA19]U[H19:AA19-**H*,COLUMN[H19:A419-**H*,COLUMN[H19:A419-**H*,COLUMN[H19:A419-**H*,COLUMN[H19:A419-**H*,COLUMN[H19:A419-**H*,COLUMN[H19:A419-**H*,COLUMN[H19:A419-**H*,COLUMN[H19:	-F(OR(G18-A57,G18-"),",G18+1)	*(F(\$G19***,***,IF(RAND()<\$8\$7,**T*,*H*))	-(F(\$G19-"","",IF(RAND():\\$B\$7,"T","H"))	+IF(SG19+"","",IF(RAND()+SB57,"T","H"))
	=if(A20="","",COUNTIF(F:F,A20))	= IF(A20="","",E20/A\$7)			-IF[G20-"","MAX[MAX[REQUENCY[IF]:GD:AA20-"H",COLUMN[H20:AA20][JF[H20:AA20-"H",COLUMN[H20:AA20]]]],MAX[REQUENCY[IF]:GD:AA20-"T",COLUMN[H20:AA20]],IF[H20:AA20-"H",COLUMN[H20:AA20]],IF[H20:AA20-"H",COLUMN[H20:AA20]],IF[H20:AA20-"H",COLUMN[H20:AA20]],IF[H20:AA20-"H",COLUMN[H20:AA20]],IF[H20:AA20-"H",COLUMN[H20:AA20]],IF[H20:AA20-"H",COLUMN[H20:AA20]],IF[H20:AA20-"H",COLUMN[H20:AA20]],IF[H20:AA20-"H",COLUMN[H20:AA20]],IF[H20:AA20-"H",COLUMN[H20:AA20]],IF[H20:AA20-"H",COLUMN[H20:AA20]],IF[H20:AA20-"H",COLUMN[H20:AA20]],IF[H20:AA20]],IF[H20:AA20]],IF[H20:AA20-"H",COLUMN[H20:AA20]],IF[H20:AA20]]],IF[H20:AA20]],IF[H20:AA20]]],IF[H20:AA20]],IF[H20:AA20]]],IF[H20:AA20]]],IF[H20:AA20]]],IF[H20:AA20]]],IF[H20:AA20]]],IF[H20:AA20]]],IF[H20:AA20]]],IF[H20:AA20]]],IF[H20:AA20]]],IF[H20:AA20]]],IF[H20:AA20]]],IF[H20:AA20]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]	=F(OR)G19=A\$7,G19="'],",G19+1)	+(F(\$G20+"","",IF(RAND()<\$8\$7,"T","H"))	<pre>-IF(\$G20="","",IF(RAND()<\$B\$7,"T","H"))</pre>	+IF(\$G20+"","",IF(RAND()+\$B\$7,"T","H"))
21 * IF(OR(A20+"",A20+A\$12),"",A20+1)	=IF(A21="","",COUNTIF(F:F,A21))	= IF(A21="","",B21/A\$7)			-#F[G21="",",MAX[MAX[REQUENCY[#](H21-AA21="1",COLUMN(H21-AA21])][](H021-AA21="1",COLUMN(H21-AA21])[](H021-AA21="1",COLUMN(H21-AA21="1",COL	-F(OR(G20+A\$7,G20+"),",G20+1)	*IF(5G21*"","",IF(RAND()<5057,"T","H"))	+IF(\$G21="","",IF(RAND()<\$B\$7,"T","H"))	+ir(\$G21="","",ir(RAND()+\$B\$7,"T","H"))
22 = IF(OR(A21="",A21=A\$12),"",A21+1)	=IF(A22="","",COUNTIF(F:F,A22))	= IF(A22="","",E22/A\$7)			-IF[G22-";":MAX[MAX[FRQUENCY[IF])G2:AA22-"H",CDLUMN[H22:AA22]][F[H22:AA22-"H",CDLUMN[H22:AA22]][[MAX[FRQUENCY[IF]]H22:AA22-"T",CDLUMN[H22:AA22]][[M]]	-F(OR(G21-A\$7,G21-"),",G21+1)	+IF(\$G22+"","",IF(RAND()+\$8\$7,"T","H"))	+(f(\$G22+"","",IF(RAND()::\$B\$7,"T","H"))	+IF(SG22+"","",IF(RAND()+SB57,"T","H"))
23 + IF(OR(A22+"",A22+A\$12),"",A22+1)	-IF(A23-"","",COUNTIF(F:F,A23))	= IF(A23="","",B23/A\$7)			-IF[G23-"","MAX[MAX[REQUENCY[IF](P23-AA23-"H",COLUMN[H23-AA23]]]/[H23-AA23-"H",COLUMN[H23-AA23]]]/[H23-AA23-"H",COLUMN[H23-AA23]]/[H]	=IF(OR(G22=A\$7,G22=""),"",G22+1)	+(F(\$G23+"","",IF(RAND()<\$B\$7,"T","H"))	-IF(\$G23="","",IF(RAND()<\$B\$7,"T","H"))	+IF(\$G23+"","",IF(RAND()+\$B\$7,"T","H"))
24 * IF(OR(A23***,A23*A\$12),***,A23+1)	=IF(A24="","",COUNTIF(F:F,A24))	= IF(A24="","",B24/A\$7)			-#F[G24-***,"::MAX[MAX[REQUENCY[F])G4:3A24-*"H",COLUMN[H24:AA24]];/F[H24:3A24-5"H",COLUMN[H24:AA24]];//[MAX[REQUENCY[F]](G4:3A24-*"H",COLUMN[H24:AA24]];//[H24:3A24-5"H",COLUMN[H24:AA24]];//[H24:3A24-5"H",COLUMN[H24:AA24]];//[H24:3A24-5"H",COLUMN[H24:AA24]];//[H24:3A24-5"H",COLUMN[H24:AA24]];//[H24:3A24-5"H",COLUMN[H24:AA24]];//[H24:3A24-5"H",COLUMN[H24:AA24]];//[H24:3A24-5"H",COLUMN[H24:AA24]];//[H24:3A24-5"H",COLUMN[H24:AA24]];//[H24:3A24-5"H",COLUMN[H24:AA24]];//[H24:3A24-5"H",COLUMN[H24:AA24]];//[H24:3A24-5"H",COLUMN[H24:AA24]];//[H24:3A24-5"H",COLUMN[H24:AA24]];//[H24:3A24-5"H",COLUMN[H24:AA24]];//[H24:3A24-5"H",COLUMN[H24:AA24]];//[H24:3A24-5"H",COLUMN[H24:AA24]];//[H24:3A24-5"H",COLUMN[H24:AA24]];//[H24:AA24]];//[H24:AA24];//[H24:AA24]];//[H24:AA24];//[H24:AA24]];//[H24:AA24];//[H24:AA24]];//[H24:AA24];//[H24:AA24]];//[H24:AA24]];//[H24:AA24];//[H24:AA24]];//[H24:AA24];//[H24:AA24]];//[H24:AA24];//[H24:AA24]];//[H24:AA24];//[H24:AA24]];//[H24:AA24]];//[H24:AA24-5"H",COLUMN[H24:AA24]];//[H24:AA24-5"H",COLUMN[H24:AA24]];//[H24:AA24-5"H",COLUMN[H24:AA24]];//[H24:AA24-5"H",COLUMN[H24:AA24]];//[H24:AA24-5"H",COLUMN[H24:AA24]];//[H24:AA24-5"H",COLUMN[H24:AA24]];//[H24:AA24-5"H",COLUMN[H24:AA24]];//[H24:AA24-5"H",COLUMN[H24:AA24]];//[H24:AA24-5"H",COLUMN[H24:AA24-5"H",COLUMN[H24:AA24-5"H"];//[H24:AA24-5"H",COLUMN[H24:AA24-5"H"];//[H24:AA24-5"H",COLUMN[H24:AA24-5"H"];//[H24:AA24-5"H"];//[H24:AA24-5"H",COLUMN[H24:AA24-5"H"];//[H24:AA24-5"H",COLUMN[H24:AA24-5"H"];//[H	=F(OR(G23=A\$7,G23=**),***,G23+1)	+(F(\$G24+"","",IF(RAND()<\$B\$7,"T","H"))	<pre>-IF(\$G24="","",IF(RAND()<\$B\$7,"T","H"))</pre>	+IF(\$G24="","",IF(RAND()+\$B\$7,"T","H"))
25 * IF(OR(A24+***,A24+A\$12),***,A24+1)	=F(A25="","",COUNTIF(F:F,A25))	= IF(A25="","",B25/A\$7)			-IF[G25-"","MAX[MAX[FRQUENCY[IF]):G5:AA25-"H",CDLUMN[H25:AA25][JF[H25:AA25-"H",CDLUMN[H25:AA25]]]]]	-IF(OR(G24-A\$7,G24+"),",G24+1)	*(F(\$G25*"","",IF(RAND()<\$B\$7,"T","H"))	+(f(\$G25+"","",(f(RAND()<\$B\$7,"T","H"))	+IF(SG25+"","",IF(RAND()+SB57,"T","H"))
25 + IF(OR(A25+"",A25+A\$12),"",A25+1)	-F(A26-**,**,COUNTIF(F-F,A26))	= IF(A26="","",B26/A\$7)			-IF[G26-"",",MAX[MAX[PRQUENCY[IF]):G6:AA26-"H",COLUMN[H26:AA26]][/[H26:AA26-"H",COLUMN[H26:AA26]]]],MAX[PRQUENCY[IF]:G26:AA26-"T",COLUMN[H26:AA26]][]]]	=F(OR(G25=A\$7,G25+"),",G25+1)	+IF(\$G26+"","",IF(RAND()<\$B\$7,"T","H"))	+IF(\$G26+"","",IF(RAND()<\$B\$7,"T","H"))	+IF(\$G26+"","",IF(RAND()+\$B\$7,"T","H"))
27 + IF(OR(A26="",A26=A512),"",A26+1)	=F(A27="","",COUNTIF(F:F,A27))	= IF(A27="","",B27/A\$7)			-#F[G27+"","MAX[MAX[FREQUENCY[IP])G7:3A27+"H",COLUMN()H27:AA27]],[F[H27:AA27-"H",COLUMN()H27:AA27]],[F]H27:AA27-"H",COLUMN()H27:AA27],[F]H27:AA27-"H",COLUMN()H27:AA27],[F]H27:AA27-"H",COLUMN()H27:AA27],[F]H27:AA27-"H",COLUMN()H27:AA27],[F]H27:AA27-"H",COLUMN()H27:AA27],[F]H27:AA27-"H",COLUMN()H27:AA27],[F]H27:AA27-"H",COLUMN()H27:AA27],[F]H27:AA27-"H",COLUMN()H27:AA27],[F]H27:AA27-"H",COLUMN()H27:AA27],[F]H27:AA27-"H",COLUMN()H27:AA27],[F]H27:AA27-"H",COLUMN()H27:AA27],[F]H27:AA27-"H",COLUMN()H27:AA27],[F]H27-AA27-"H",COLUMN()H27:AA27],[F]H27-AA27-"H",COLUMN()H27:AA27],[F]H27-AA27-"H",COLUMN()H27:AA27],[F]H27-AA27-"H",COLUMN()H27:AA27-"H",COLUMN()H27:AA27-"H",COLUMN()H27:AA27-"H",COLUMN()H27:AA27-"H",COLUMN()H27:AA27-"H",COLUMN()H27:AA27-"H",COLUMN()H27:AA27-"H",COLUMN()H27:AA27-"H",COLUMN()H27:AA27-"H",COLUMN()H27-A	=IF(OR(G26+A\$7,G26+**),***,G26+1)	+IF(\$G27+"","",IF(RAND()<\$B\$7,"T","H"))	=IF(\$G27="","",IF(RAND()<\$B\$7,"T","H"))	+IF(5G27+"","",IF(RAND()+5B57,"T","H"))
28 + IF(OR(A27="",A27=A\$12),"",A27+1)	-IF(AZB-"","",COUNTIF(F:F,AZB))	= IF(A28="","",B28/A\$7)			-HEGZES-","-MAX(MAX(FECQUENCY)(F))GEAAZE-","-COLUMN(HZEAAZE())()()()()()()()()()()()()()()()()()(=F(OR(G27+A\$7,G27+"),",G27+1)	+IF(SG28+**,***,IF(RAND()+SB\$7,*T*,*H*())	-IF(\$G28-**,**,IF(RAND()<\$8\$7,*T*,*H*()	+IF(\$G28+"","",IF(RAND()<\$B\$7,"T","H"))
29 + IF(OR(A28+"",A28+A\$12),"",A28+1)	-F(A29-**,**,COUNTIF(F-F,A29))	= IF(A29="","",B29/A\$7)			-IF[G29-"","MAX[MAX[FREQUENCY[F]):G9:AA29-"H",COLUMN[H29:AA29])[F[H29:AA29-"H",COLUMN[H29:AA29]]]][MAX[FREQUENCY[F]):G9:AA29-"T",COLUMN[H29:AA29][]]]]	-IF(OR(G28-A\$7,G28+"),",G28+1)	+IF(\$G29+"","",IF(RAND()<\$B\$7,"T","H"))	+IF(\$G29+"","",IF(RAND()<\$B\$7,"T","H"()	=IF(\$G29="","",IF(RAND()+\$B\$7,"T","H"))
30 = IF(OR(A29="",A29=A\$12),"",A29+1)	=F(A30="","",COUNTIF(F:F,A30))	= IF(A30="","",B30/A\$7)			-IF[G3D-"","MAX[MAX[REQUENCY[F](HDAA3D-"H",COLUMN[HBDAA3D]],F(HBDAA3D-"H",COLUMN[HBDAA3D",MAX[REQUENCY[F](HBDAA3D-"T",COLUMN[HBDAA3D",MAX[REQUENCY[F](HBDAA3D-"T",COLUMN[HBDAA3D",MAX[REQUENCY[F](HBDAA3D-"T",COLUMN[HBDAA3D",MAX[REQUENCY[F](HBDAA3D-"T",COLUMN[HBDAA3D",MAX[REQUENCY[F](HBDAA3D-"T",COLUMN[HBDAA3D",MAX[REQUENCY[F](HBDAA3D-"T",COLUMN[HBDAA3D",MAX[REQUENCY[F](HBDAA3D-"T",COLUMN[HBDAA3D",MAX[REQUENCY[F](HBDAA3D-"T",COLUMN[HBDAA3D",MAX[REQUENCY[F](HBDAA3D-"T",COLUMN[HBDAA3D",MAX[REQUENCY[F](HBDAA3D-"T",COLUMN[HBDAA3D",MAX[REQUENCY[F](HBDAA3D-"T",COLUMN[HBDAA3D",MAX[REQUENCY[F](HBAA3D",MAX[REQUENCY[F](HBAA3D",MAX[REQUENCY[F](HBAA3D",MAX[REQUENCY[F](HBAA3D",MAX[REQUENCY[F](HBAA3D",MAX[REQUENCY[F](HBAA3D",MAX[REQUENCY[F](HBAA3D",MAX[REQUENCY[F](HBAA3D",MAX[REQUENCY[F](HBAA3D",MAX[REQUENCY[F](HBAA3D",MAX[REQ	-IF(OR(G29=A\$7,G29=***),***,G29+1)	+IF(\$G30+"","",IF(RAND()<\$B\$7,"T","H"))	=IF(\$G30="","",IF(RAND()<\$B\$7,"T","H"))	=IF(\$G30="","",IF(RAND()<\$B\$7,"T","H"))
31 * IF(OR(A30***,A30*A\$12),***,A30+1)	=F(A31="","",COUNTIF(F-F,A31))	= IF(A31="","",B31/A\$7)			-IF[G31="","MAX[MAX[REQUENCY[F](HI:AA31="H",COLUMN[HI:AA31]]][/[HI:AA31="H",COLUMN[HI:AA31]]]]/[MAX[REQUENCY[F](HI:AA31="H",COLUMN[HI:AA31]]]//[HI:AA31="H",COLUMN[HI:AA31]]//[HI:AA31="H",COLUMN[HI:AA31]]//[HI:AA31="H",COLUMN[HI:AA31]]//[HI:AA31="H",COLUMN[HI:AA31]//[HI:AA31="H",COLUMN[HI:AA31]//[HI:AA31="H",COLUMN[HI:AA31]//[HI:	-IF(OR(G30-A\$7,G30+"),",G30+1)	+(F(\$G31="","",IF(RAND()<\$B\$7,"T","H"))	-IF(\$G31="","",IF(RAND()<\$B\$7,"T","H"))	=IF(\$G31="","",IF(RAND()<\$B\$7,"T","H"))
32 + IF(OR(A31+"",A31+A512),"",A31+1)	-F(A32-**,**,COUNTIF(F:F,A32))	= IF(A32="","",B32/A\$7)		1	-#[G32-",",MAX)MAX(FREQUENCY(FI):52AA32-"H",COLUMN(H32AA32)[JF(H32AA32-"H",COLUMN(H32AA32)]]])	-IF(OR(G31-A57,G31-**),***,G31+1)	+IF(\$G32+"","",IF(RAND()+\$B\$7,"T","H"))	-IF(\$G32-"","",IF(RAND()<\$B\$7,"T","H"()	-IF(\$G32-"","",IF(RAND()+\$B\$7,"T","H"))
33 = IF(OR(A32="",A32=A\$12),"",A32+1)	-F(A33-**,***,COUNTIF(F:F,A33))	= IF(A33="","",B33/A\$7)			-IF[G33-"","MAX/MAX/REQUENCY[IF):G3-AA33-"H",COLUMN(H3-AA33),[FH3-AA33-"H",COLUMN(H3-AA33),]],MAX/REQUENCY[IF):G3-AA33-"T",COLUMN(H3-AA33),[FH3-AA33-"T",COLUMN(H3-AA33),[FH3-AA33-T],FH3-AA33-T],FH3-AA33-T],FH3-AA33-T,FH3	-IF(OR(G32-A\$7,G32+**),***,G32+1)	-IF(\$G33-"","",IF(RAND()<\$B\$7,"T","H"))	+IF(\$G33+"","",IF(RAND()<\$B\$7,"T","H"))	-ir(\$G33-"","",ir(RAND()<\$B\$7,"T","H"))
34 * IF(OR(A33***,A33*A\$12),***,A33+1)	-F(A34-**,**,COUNTIF(F.F,A34))	= IF(A34="","",B34/A\$7)			-IF[G34-"","MAX[MAX[REQUENCY[IF]:SEAA34-"H",COLUMN[H34A34]],F[H34A34-"H",COLUMN[H34A34]],[MAX[REQUENCY[II]:H34A34-"T",COLUMN[H3+A34]],[II]:SEAA34-"T",COLUMN[H3+A34],[II]:SEAA34-"T",COLUM	-IF(OR(G33-A\$7,G33+**),***,G33+1)	+IF(\$G34+"","",IF(RAND()<\$B\$7,"T","H"))	+IF(\$G34+"","",IF(RAND()<\$B\$7,"T","H"))	-ir(\$G34-"",",ir(RAND()<\$B\$7,"T","H"))
35 + IF(OR(A34+***,A34+A\$12),***,A34+1)	-F(A35-",",COUNTIF(F:F,A35))	= IF(A35="","",B35/A\$7)			-HEGIS-","MAXIMAXEREQUENCY[FE]HIS-AAIS-"H",COLUMN[HIS-AAIS][LE[HIS-AAIS-"H",COLUMN[HIS-AAIS]][LE[HIS-AAIS-"]",COLUMN[HIS-AAIS][LE[HIS-AAIS-"]",COLUMN[HIS-AAIS][LE[HIS-AAIS-"]",COLUMN[HIS-AAIS][LE[HIS-AAIS-"]",COLUMN[HIS-AAIS][LE[HIS-AAIS-"]",COLUMN[HIS-AAIS][LE[HIS-AAIS-"]",COLUMN[HIS-AAIS][LE[HIS-AAIS-"]",COLUMN[HIS-AAIS][LE[HIS-AAIS-"]",COLUMN[HIS-AAIS][LE[HIS-AAIS-"]",COLUMN[HIS-AAIS][LE[HIS-AAIS-"]",COLUMN[HIS-AAIS][LE[HIS-AAIS-"]",COLUMN[HIS-AAIS][LE[HIS-AAIS-"]",COLUMN[HIS-AAIS][LE[HIS-AAIS-"]",COLUMN[HIS-AAIS][LE[HIS-AAIS-"]",COLUMN[HIS-AAIS][LE[HIS-AAIS-"]",COLUMN[HIS-AAIS][LE[HIS-AAIS-"]",COLUMN[HIS-AAIS][LE[HIS-AAIS-"]",COLUMN[H	+IF(OR)G34+A57,G34+**),***,G34+1)	+IF(\$G35+"","",IF(RAND()<\$B\$7,"T","H"))	-IF(\$G35-"","",IF(RAND()<\$B\$7,"T","H"))	+IF(\$G35+"",",IF(RAND()+\$B\$7,"T","H"))
36 + IF(OR(A35+"*,A35+A\$12),"*,A35+1)	=F(A36="","",COUNTIF(F:F,A36))	= IF(A36="","",B36/A\$7)			-IF(G16-","MAN/MAX/PEQUENCY(FI):G6AA36-"H",COLUMN(HSAA36),E(HSAA36-"H",COLUMN(HSAA36-"H",COLUM	HF(OR(G35+A\$7,G35+**),***,G35+1)	+IF(\$G36+"","",IF(RAND()<\$B\$7,"T","H"))	+IF(\$G36="","",IF(RAND()<\$B\$7,"T","H"))	+IF(\$G36+"",",IF(RAND()+\$B\$7,"T","H"))
37 = IF(OR(A36="",A36=A\$12),"",A36+1)	=F(A37="","",COUNTIF(F:F,A37))	= IF(A37="","",E37/A\$7)			-IF(G37-","MAX(MAX(FREQUENCY(FI)H37-AA37-"H",COLUMN(H37-AA37)),F(H37-AA37-"),F(H37-AA3	<if(or(g36+a\$7,g36+**),***,g36+1)< p=""></if(or(g36+a\$7,g36+**),***,g36+1)<>	+IF(\$G37="","",IF(RAND()<\$B\$7,"T","H"))	+if(\$G37+"","",if(RAND()<\$B\$7,"T","H"))	*IF(\$G37="","",IF(RAND()<\$B\$7,"T","H"))
38 + IF(OR(A37="",A37=A\$12),"",A37+1)	-F(A38-**,**,COUNTIF(F.F.A38))	= IF(A38="",",B38/A\$7)			-IFIGURE",", MAXIMAX/PEQUENCY/EP/SEAARE-"H", COLUMN/HEAARE), EP/SEAARE-"H", COLUMN/HEAARE-"H", COLUMN/H", COLUMN/HEAARE-"H", CO	-IF(OR)G37+A\$7,G37+**),***,G37+1)	+IF(\$G38+"","",IF(RAND()+\$B\$7,"T","H"))	+(F(SG38+"","",(F(RAND() <sbs7,"t","h"))< td=""><td>-IF(SG38-",",IF(RAND()+SBS7,"T","H"))</td></sbs7,"t","h"))<>	-IF(SG38-",",IF(RAND()+SBS7,"T","H"))
70 - IE(OB(A38-** A38-A512) ** A38-A1)	=E(A39="" "COUNTIEF E A39))	= IE(A30=*** ** B30/A57)			HIGGSS-" "MANIMANTERFOLLENCY INTO AATS-"O" COLLIMNINGS AATS-"O" COLLIMNI	-INIONIG38-AST G38-**) ** G38-1)	+III/SG19+** ** III/BAND(I/SB57 *T* *H*))	HEISCORP " " IE(BANDI) SEST "T" "H"))	- midding-" " minaami-dada tat butil

	Α	В	С	D	E	F	G	Н	I
1	for macrostate 0, there are 0			Macrostate	Number of Mircrostates		Most probable macrostates	4	30.00%
2	microstates. This is because you			0	0			5	25.00%
3	cannot have 0 flips in a row if			1	2			3	20.00%
4	you are looking at both sides of			19	4			6	15.00%
5	5 the coin			20	2			7	5.00%
6									
7									
8	for macrostate 1, there are 2		ere are 2						
9	combinations because you have		e you have						
10	TT or HH t	TT or HH then alternating H and							
11		Т							
12									
13	for Macro	ostate 19, th	here are 4						
14	microstate	es because	you either						
15	have 19 H	or T at the	beginning						
16	or end, 4 combinations								
17	for macrostate 20, there are 2								
18	combinati	ions, either	all H or all						
19		T							