

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