PROBLEM 3: THREE TOSSES OF A FAIR COIN (4/4 points)

You flip a fair coin (i.e., the probability of obtaining Heads is $1/2$) three times. Assume that all sequences of coin flip results, of length 3, are equally likely. Determine the probability of each of the following events.

1. $\{HHH\}$: 3 Heads

0.125 ✔

2. $\{HTH\}$: the sequence Heads, Tails, Heads

0.125 ✔

3. Any sequence with 2 Heads and 1 Tails (in any order):

0.375 ✔

4. Any sequence in which the number of Heads is greater than or equal to the number of Tails:

0.5 ✔

You have used 1 of 2 submissions

DISCUSSION

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