

Math 270 - Basic Discrete Mathematics
Practice Quiz on Section 9.1

Directions: Answer the problems given below.

1. Suppose a coin is tossed four times in a row, and the side facing up is showing. We identify each outcome of this random process by a string of H 's and T 's of length 4. So, for example, $HHTH$ corresponds to the first two tosses showing heads, the third toss showing tails, and the fourth toss showing heads.

a. Write out the sample space S for this random process - how many elements are in S ?

b. Let E be the event that the first two tosses show heads. Write E as a set.

c. What is the probability of E ?