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Problem

EE22BTECH11035 - vikeath

question: someone is asked to take a number from 1 to 100. The probability that it is a prime number is

Solution:

RV	description
X	getting a prime number
Y	getting a non-prime numbe

TABLE 0: random variable

Here X+Y=100.we know that there are 25 prime numbers in between 1 to 100.

hence,

$$Pr(X) = \frac{25}{100}$$
 (1)
= $\frac{1}{4}$ (2)