

Dice



You want to test the probabilities for throwing a pair of dice. A regular die will give values between 1 and 6, inclusive, and a pair of dice will give values between 2 and 12. However their probabilities are not equally likely. You will have 6-6 with probability $1/36$, whereas you will have a total of seven with probability $6/36$ with outcomes 1-6, 2-5, 3-4, 4-3, 5-2, and 6-1.

Create an application which will first ask how many throws that you want to generate. Then, a 2D table that will hold the frequency of each outcome (such as 2-5, 3-4, 4-3 etc.) should be created with all entries initialized to 0. Thereafter, random outcomes will be generated. You will generate two separate random numbers between 1 and 6 inclusive each to represent the outcome. Afterwards, you will increase the corresponding frequency in the 2D table by one. Having generated these outcomes, you will display the outcomes as a table. Finally, you will display the frequencies for the totals of the pairs and their rates.

[See sample runs below]



