## **Placing Coins on a Grid**

In how many ways can R coins be placed on an N  $^{\ast}$  M grid such that each row and each column have atleast 1 coin ?

Input :

The first line contains the number of test cases T. T lines follow containing 3 integers: N,M and R. (1 <= T <= 100. 1 <= N,M <= 200. 1 <= R <= N \* M)

Output :

Output T lines, one for each test case, containing the output for the corresponding test case. Output all values modulo 100000007

Sample Input :

3

111

211

233

Sample Output :

1

0

6