## Knifes Are Fun

"Do you know, why I use a knife? Guns are too quick. You can't savor all the little emotions. You see, in their last moments, people show you who they really are. So in a way, I know your friends better than you ever did. Would you like to know which of them were cowards?"

Joker has many knifes, and he wants to assign a distinct integer to each knife so he can easily identify them. The i-th knife can have an integer between 1 and maxNumber[i], inclusive.

Return the number of ways he can assign numbers to his knifes, modulo 1,000,000,007. If it's impossible to assign distinct integers to the knifes, print 0.

## Input

The first line contains the number of test cases $\mathrm{T}(1<=\mathrm{T}<=666)$
Each test case has 2 lines - 1 st line denotes number of knifes $N(1<=N<=66)$ Joker has and the 2nd line denotes the numbers \{maxNumber[0]....maxNumber[N-1]\} Joker has.
$1<=$ maxNumber $[i]<=3000$

## Output

Print the number of ways Joker can assign numbers to his knifes, modulo 1,000,000,007. If it's impossible to assign distinct integers to the knifes, print 0 . In last line print the string "KILL BATMAN". Don't print any extra spaces.

## Example

## Input:

3
1
7
2
58
3
212
Output:
7
35
0
KILL BATMAN

## Explanation

- Test case 1 : Joker can assign any number between 1 and 7 , inclusive, to the only knife.
- Test case 2 : Joker wants you too think !
- Test case 3 : $(1,1,1)(1,1,2)(2,1,1)(2,1,2)$ are the possible combinations. As the numbering of knifes is not unique so the output is 0 .

