1232 - Coin Change (II)

In a strange shop there are n types of coins of value A_1 , A_2 ... A_n . You have to find the number of ways you can make K using the coins. You can use any coin at most K times.

For example, suppose there are three coins 1, 2, 5. Then if $\mathbf{K} = \mathbf{5}$ the possible ways are:

So, 5 can be made in 4 ways.

Input

Input starts with an integer T (\leq 100), denoting the number of test cases.

Each case starts with a line containing two integers n ($1 \le n \le 100$) and K ($1 \le K \le 10000$). The next line contains n integers, denoting A_1 , A_2 ... A_n ($1 \le A_i \le 500$). All A_i will be distinct.

Output

For each case, print the case number and the number of ways **K** can be made. Result can be large, so, print the result modulo **100000007**.

Sample Input	Output for Sample Input
2	Case 1: 4
3 5	Case 2: 108
1 2 5	
4 20	
1 2 3 4	