

1232 - Coin Change (II)

In a strange shop there are n types of coins of value $A_1, A_2 \dots A_n$. 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 $K = 5$ the possible ways are:

11111
1112
122
5

So, 5 can be made in 4 ways.

Input

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

Each case starts with a line containing two integers n ($1 \leq n \leq 100$) and K ($1 \leq K \leq 10000$). The next line contains n integers, denoting $A_1, A_2 \dots A_n$ ($1 \leq A_i \leq 500$). 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 3 5 1 2 5 4 20 1 2 3 4	Case 1: 4 Case 2: 108