Problem B. B

Time limit   1000 ms
Mem limit   65536 kB

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 **K = 5**, the possible ways are:

1. $(1, 1, 1, 1, 1)$
2. $(1, 1, 1, 2)$
3. $(1, 2, 2)$
4. (5)

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 ($1 \leq n \leq 100$)** and **K ($1 \leq K \leq 10000$)**. The next line contains **n** integers, denoting $A_1, A_2 ... A_n$ **($1 \leq A_i \leq 500$)**. 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
2 3 5 1 2 5 4 20 1 2 3 4	Case 1: 4 Case 2: 108