

Given  $n$  boxes with widths of  $w_1, w_2, \dots, w_n$  and another big box with width  $W$ , find how many ways the boxes can be put in the big box. The constraints are:

- 1) Of course the summation of widths of the placed boxes should not be greater than  $W$ .
- 2) The boxes should be placed one by one starting from left without leaving any empty spaces between them. So, the end of the big box may contain empty spaces. But if there is any unplaced box which can be fit in this space, the ordering should be considered invalid (See the explanation for sample case 1).
- 3) Two orderings are considered different if in one ordering, one box is in  $i$ -th position, but in another ordering, it isn't.
- 4) If two boxes have same widths, they should be considered same.

## Input

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

Each case starts two integers  $n$  ( $1 \leq n \leq 100$ ) and  $W$  ( $1 \leq W \leq 1000$ ). The next line contains  $n$  space separated integers, denoting  $w_1 w_2 \dots w_n$  ( $1 \leq w_i \leq W$ ).

## Output

For each case, print the case number first and the result modulo 10007.

**Notes:** For the first case of the Sample Input, the orderings are

12  
13  
21  
23  
31  
32

Only 1 or 2 or 3 is not solutions since we can still place another box.

## Sample Input

2  
3 5  
1 2 3  
5 10  
1 2 2 4 5

## Sample Output

Case 1: 6  
Case 2: 30