D	How Lazy one can be	Time limit: 1 sec

Problem:

Techboy is the laziest person in this planet. But his girlfriend "you know who" does not like such indolence of techboy. She orders him to complete N tasks in M days. If he fails to complete those tasks she will leave him for good. Techboy loves his girl so much that he will complete these tasks in M days but having the reputation of being the laziest person of this planet he wants to do minimum amount of unit work per day to complete N tasks in M days. If he starts doing a task there is no way to left it uncomplete for next day. He needs to complete it in that day. Can you help him to find the minimum unit of works he needs to do every day to complete N tasks in M days.

Input:

The first line contains an integer **T** i.e. the number of Test cases. T test cases follow. Each test Case will contain two lines of input. In first line there will be two interger N, M where N is the number of tasks and M is the deadline for this task to complete. Next line contains n integers i^{th} integer denotes the time techboy needs to complete i^{th} task.

1<= **T <= 100**
2 <=**N** <=100
1<= **M <= min(N,10)**
1 <= i^{th} task <= 100

In single test case sum of all task's complete time is less than or equal 1000.

Output:

For each test case, print a line "Case x: y" where x is replaced by the test case number and y is the minimum unit work techboy needs to do to complete N tasks in M days.

Input	Output

1 5 3 1 2 2 1 3	Case 1: 3