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Server Time: Thu Nov 22, 2018 12:27 am

Welcome Nadim Mahmud (logout)

## 1233 - Coin Change (III)

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In a strange shop there are n types of coins of value  $A_1$ ,  $A_2$  ...  $A_n$ .  $C_1$ ,  $C_2$ , ...  $C_n$  denote the number of coins of value  $A_1$ ,  $A_2$  ...  $A_n$  respectively. You have to find the number of different values (from 1 to m), which can be produced using these coins.

## Input

Input starts with an integer  $T \leq 20$ , denoting the number of test cases.

Each case starts with a line containing two integers n ( $1 \le n \le 100$ ), m ( $0 \le m \le 10^5$ ). The next line contains 2n integers, denoting  $A_1$ ,  $A_2$  ...  $A_n$ ,  $C_1$ ,  $C_2$  ...  $C_n$  ( $1 \le A_i \le 10^5$ ,  $1 \le C_i \le 1000$ ). All  $A_i$  will be distinct.

## **Output**

For each case, print the case number and the result.

Sample Input	Output for Sample Input
2	Case 1: 8
3 10	Case 2: 4
1 2 4 2 1 1	
2 5	
1 4 2 1	

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