

Online Competition Africa 2010

A. Odd Man Out

B. Get to Work

C. Qualification Round

D. Polygraph

Contest Analysis

Questions asked 1



- Submissions

Odd Man Out

7pt | Not attempted 209/214 users correct (98%)

7pt | Not attempted 206/209 users correct (99%)

Get to Work

9pt | Not attempted 127/149 users correct (85%)

9pt | Not attempted 124/127 users correct (98%)

Qualification Round

11pt | Not attempted 47/87 users correct (54%)

22pt | Not attempted 4/32 users correct (13%)

Polygraph

12pt | Not attempted 14/30 users correct (47%)

23pt Not attempted 0/2 users correct (0%)

Top Scores	
RalfKistner	77
mohamedafattah	65
Ahmed.Kamel	65
gwylim	65
Nooodles	55
amrSamir	55
Blazerfrost	55
naguib	55
Kosie	55
mRefaat88	55

Problem C. Qualification Round

This contest is open for practice. You can try every problem as many times as you like, though we won't keep track of which problems you solve. Read the Quick-Start Guide to get started.

Small input

11 points

Large input 22 points

Solve C-small

Solve C-large

Problem

You've just advanced from the Qualification Round of Google Code Jam Africa 2010, and you want to know how many of your fellow contestants advanced with you. To give yourself a challenge, you've decided only to look at how many people solved each problem.

The Qualification Round consisted of **P** problems; the ith problem was fully solved by S_i contestants. Contestants had to solve C problems in order to advance to the next round. Your job is to figure out, using only that information, the maximum number of contestants who could have advanced.

Input

The first line of the input gives the number of test cases, ${\bf T}$. T lines follow. Each will consist only of space-separated integers: first P, then C, then P integers S₀...S_{P-1}.

Output

For each test case, output one line containing "Case #x: y", where x is the case number (starting from 1) and y is the maximum number of contestants who could have advanced (in other words, the maximum number of contestants who could have solved at least **C** problems).

Limits

 $1 \le T \le 100$ $1 \le C \le P$

Small dataset

 $1 \le P \le 6$ $0 \leq \mathsf{S_i} \leq 1000$

Large dataset

 $1 \le P \le 60$ $0 \le S_i \le 10^{17}$

Sample

Input Output Case #1: 73 2 2 73 100 Case #2: 377 3 2 245 272 238

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