

VE EVENTS

Shopee Programming Contest #1

LIVE INVITE ONLY ACCESS

Jun 27, 2020, 01:00 PM WIB - Jun 27, 2020, 02:00 PM WIB

INSTRUCTIONS PROBLEMS SUBMISSIONS LEADERBOARD ANALYTICS JUDGE

← Problems / Judging Servers

Judging Servers

Max. score: 20

As we all know, you are the chief judge for the upcoming Shopee Code League hosted by our favorite E-Commerce platform Shopee. You have already selected **N** problems from hundreds of thousand of problems from your quality Problem Bank. Since you want to make every contestant happy even if he/she got Wrong Answers on every problem during the contest, you have decided to judge each problem on a different server.

Now you have to buy N judging servers from SEA Server Limited which is a reputed company. SEA Server Limited has total S servers in a row numbered from S and you have to choose S servers from these S servers. The S server has a price tag of S where S is S you cannot rent these servers on an hour or day basis. However, SEA Server Limited has a lifetime offer for you. If you buy any server then you get one of the adjacent servers for free if you wish. If you choose to buy the S if S if

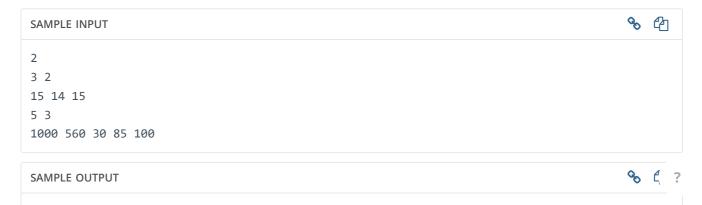
Input

Input starts with an integer T (1 \leq T \leq 50), denoting the number of test cases.

Each case starts with two integers S (1 \leq S \leq 1000) and N (1 \leq N \leq S). Next line contains S integers separated by space and the i'th integer of this line represents the price tag P_i of the i'th server (0 \leq $P_i \leq$ 10 9).

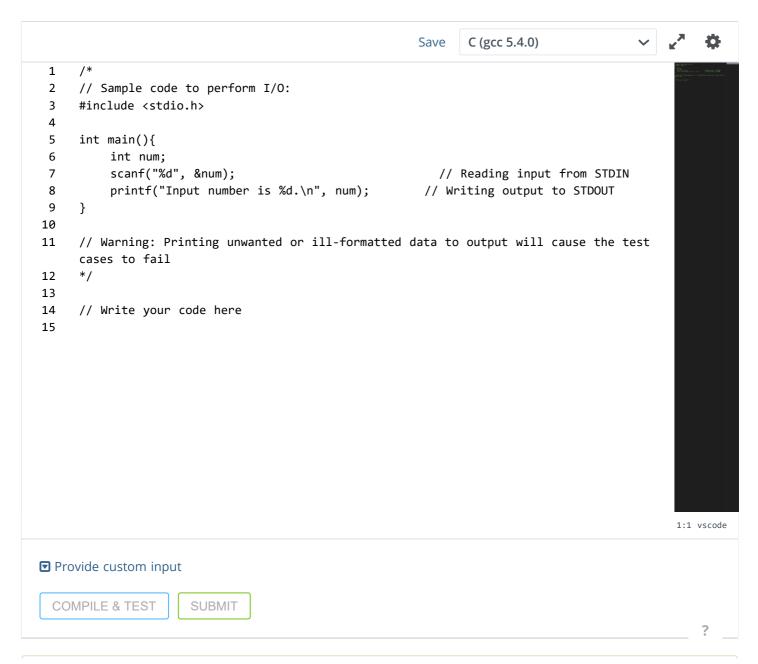
Output

For each case, print the case number and the minimum cost to buy the N servers.



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Case 1: 14
     Case 2: 115
Explanation
In the second case, you can pay for the 3rd and the 4th servers with a cost of 115 and take the 2nd or 5th server f
free.
Time Limit:
                      2.0 sec(s) for each input file.
Memory Limit:
                      256 MB
Source Limit:
                      1024 KB
Marking Scheme:
                      Score is assigned if any testcase passes.
Allowed Languages: Bash, C, C++, C++14, C++17, Clojure, C#, D, Erlang, F#, Go, Groovy, Haskell, Java, Java 8, Java 14, JavaScript(Rhino),
                      JavaScript(Node.js), Julia, Kotlin, Lisp, Lisp (SBCL), Lua, Objective-C, OCaml, Octave, Pascal, Perl, PHP, Python,
                      Python 3, Python 3.8, R(RScript), Racket, Ruby, Rust, Scala, Swift-4.1, Swift, TypeScript, Visual Basic
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CODE EDITOR



7 Tip: You can submit any number of times you want. Your best submission is considered for computing total score.

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