Shopee Programming Contest #1
Jun 27, 2020, 02:00 PM CST - Jun 27, 2020, 06:40 PM CST

INSTRUCTIONS   PROBLEMS   SUBMISSIONS   LEADERBOARD   ANALYTICS   JUDGE

Lucky Winner
Max. score: 20

This problem is no longer available for practice. Apology for any inconvenience!

Ding Ding Ding! You have been chosen to be the one and only winner of **SHOPEE LUCK LEAGUE.**

We're giving you **K tokens** to pick items on our shopee search results page for FREE!

Each token can get two adjacent items on the grid (horizontally or vertically).

Given that shopee search results page is a grid of **N rows and 3 columns** (actually it's 5, but we specially change our UI to make your life easier). Each item on the grid has a price (the price can be negative).

The rule are you have to use **all of your tokens**, one item can only be covered by one token (no overlapping here, you can't buy one item twice). Your goal is to find the maximum worth of items you can bring home.

Input

First line, number N (number of rows) (1 <=N <= 1000), and K (number of tokens) (1 <= K <= 1000)

N next lines, each line contain 3 numbers, the values of the board (abs(a[i,j]) <= 1e6)

Output

A single number of the maximum worth of items that can be cover with exactly K non-overlapping tokens

SAMPLE INPUT	SAMPLE OUTPUT
5 3 100 -9 -1 -1 3 2 -9 2 3 2 5 1 3 3 4	113

Explanation
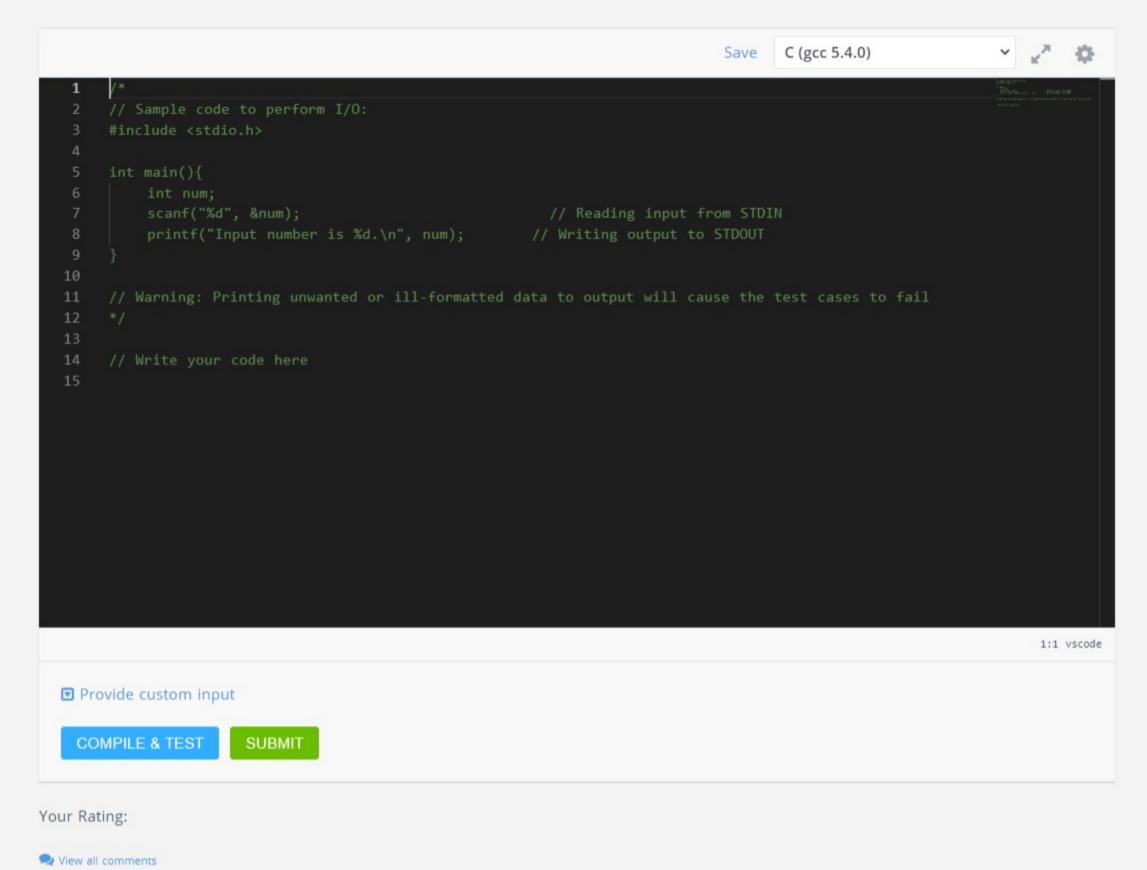
Second example: It's optimal to use 3 tokens on [100, -1], [2, 5], and [3,4]

Time Limit:	1.0 sec(s) for each input file.
Memory Limit:	256 MB
Source Limit:	1024 KB
Marking Scheme:	Score is assigned when all the testcases pass.
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

CODE EDITOR

Save   C (gcc 5.4.0)

```
1  /*
2  // Sample code to perform I/O:
3  #include <stdio.h>
4
5  int main(){
6      int num;
7      scanf("%d", &num);                // Reading input from STDIN
8      printf("Input number is %d.\n", num);    // Writing output to STDOUT
9  }
10
11 // Warning: Printing unwanted or ill-formatted data to output will cause the test cases to fail
12 */
13
14 // Write your code here
15
```

1:1 vscode

▣ Provide custom input

COMPILE & TEST   SUBMIT

Your Rating:

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RECENT SUBMISSIONS

DEVELOPERS	RESULT	LANGUAGE
Salken	⚠️	C++14
not bottom 30%	❗	Python 3.8
not bottom 30%	❗	Python 3.8
Yu-Hsuan Chen	🔄	C++
Muhammad Zaky Ao...	❌	Python 3.8
Gondorians	🔄	C++17

View All