03 : 12 : 35
HRS MIN SEC

Finish Test

5 LIVE EVENTS

Shopee Programming Contest #1

LIVE INVITE ONLY ACCESS

Jun 27, 2020, 02:00 PM CST - Jun 27, 2020, 03:00 PM CST

Lucky Winner

Max. score: 20

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

```
5 3
100 -9 -1
-1 3 2
-9 2 3
2 5 1
3 3 4
```

SAMPLE OUTPUT

```
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-4.5, Swift, TypeScript, Visual Basic

CODE EDITOR

Save C (gcc 5.4.0)

```c
/*
// Sample code to perform I/O:
#include <stdio.h>

int main(){
    int num;
    scanf("%d", &num);                          // Reading input from STDIN
    printf("Input number is %d.\n", num);       // Writing output to STDOUT
}

// Warning: Printing unwanted or ill-formatted data to output will cause the test cases to fail
*/

// Write your code here

```

1:1 vscode

Provide custom input

COMPILE & TEST SUBMIT

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

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5
LIVE EVENTS

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