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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) ($1 \leq N \leq 1000$), and **K** (number of tokens) ($1 \leq K \leq 1000$)

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

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-4.1, Swift, TypeScript, Visual Basic

CODE EDITOR

保存 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 vncode

提供自定义输入

编译&测试

提交

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

Your Rating:

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