



Mario and the Mysterious Bridge

locked

Problem

Submissions

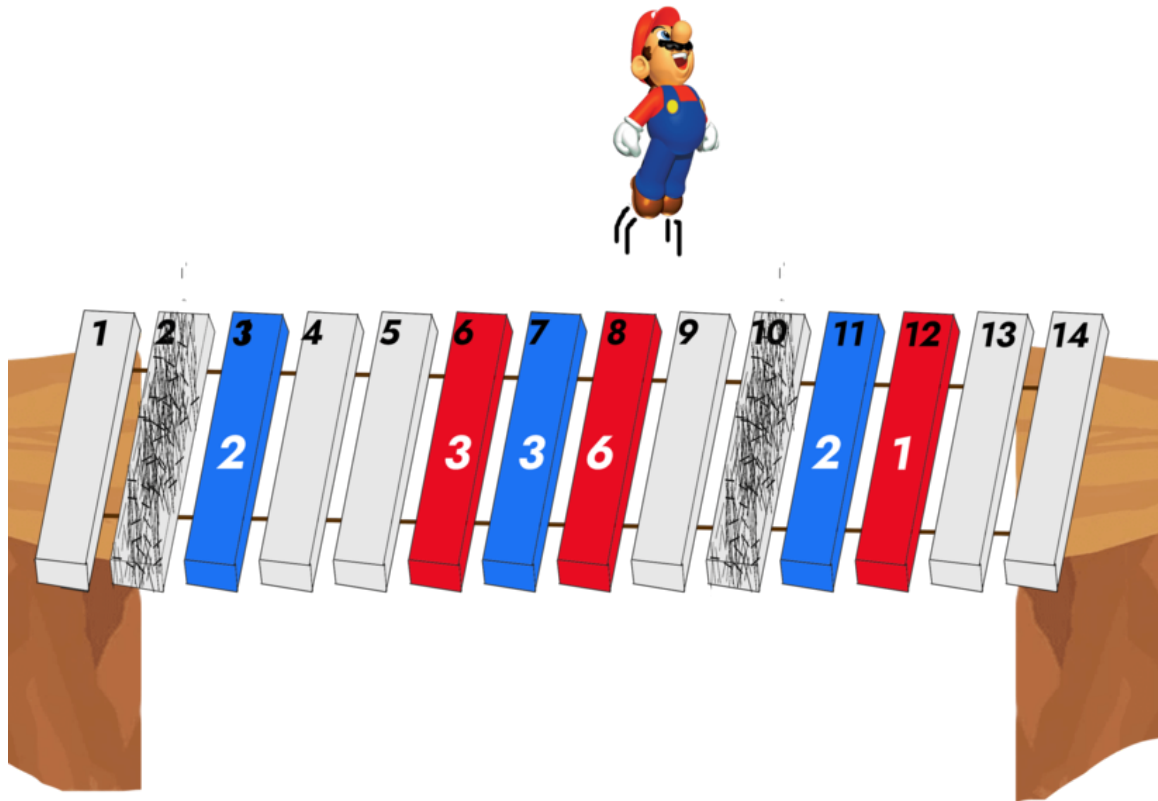
Leaderboard

Discussions

Our super famous Mario likes to travel a lot. One day on his way, he has found a strange bridge that helps to cross from a to b.

This bridge consists with wooden blocks such that some of them are colored and some are discolored. These colorful ones can be either **red** or **blue**. When the Mario jumps to a red wooden block he gets **teleported forward** the number of blocks written in the particular red block. (if mario is in the red block no 2 and the number on the block 2 is 13, mario advances to the block no 15($13+2$)). When mario jumps into a blue block he gets **teleported backwards** the no of the blocks written on that particular block. (if mario is on the blue block no 10 and the number on the block is 4, mario teleports to block no 6($10-6$)). Given the max distance mario can jump J (if $j=3$, mario can jump either 1,2 or 3 blocks each turn) and locations of red and blue blocks and the number on each block , and also given the broken blocks, find the minimum no of jumps that required to reach the last block.

Mario starts at block no 1 and he ends at block no N.



Input Format

- 1.First line contains the five integers **N,R,B,C,J**
 - 2.Second line contains **R no of** interger pairs (x,y) such that x denotes the **red block no** and y denotes the number written in block x.
 - 3.Third line contains **B no of** interger pairs (a,y) such that a denotes the **blue block no** and y denotes the number written in block a.
 - 4.fourth line contains **C no of** intergers denoting the broken block indexes
- * - N - index of end block
- R- no of red blocks
 - B-no of blue blocks
 - C-no of broken blocks
 - J-maximum distance mario can jump *

Constraints

1. starting and ending blocks cannot be broken.
2. Theres always a way to reach the end of the bridge.
3. If mario jumps or teleported on a red or blue block he must teleport according to block number(*he cannot stay on a red or blue block without teleporting*).
4. Mario cannot land on a broken block under any circumstance
5. 0

Output Format

output a single integer denoting the **minimum no of jumps** required to reach the end block **N**

Sample Input 0

```
36 5 5 3 2
2 13 5 2 9 18 18 11 25 10
17 13 20 14 24 8 32 2 34 22
2 7 9
```

Sample Output 0

```
13
```

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Submissions: 6

Max Score: 100

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C++



```
1 #include <cmath>
2 #include <cstdio>
3 #include <vector>
4 #include <iostream>
```

```
5 #include <algorithm>
6 using namespace std;
7
8
9 int main() {
10     /* Enter your code here. Read input from STDIN. Print output to STDOUT */
11     return 0;
12 }
13
```

Line: 1 Col: 1

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