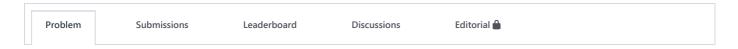


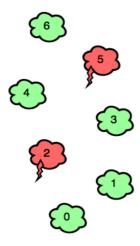
Jumping on the Clouds ■





Emma is playing a new mobile game involving n clouds numbered from 0 to n-1. A player initially starts out on cloud c_0 , and they must jump to cloud c_{n-1} . In each step, she can jump from any cloud i to cloud i+1 or cloud i+1.

There are two types of clouds, *ordinary clouds* and *thunderclouds*. The game ends if Emma jumps onto a thundercloud, but if she reaches the last cloud (i.e., c_{n-1}), she wins the game!



Can you find the minimum number of jumps Emma must make to win the game? It is guaranteed that clouds c_0 and c_{n-1} are ordinary-clouds and it is *always possible* to win the game.

Input Format

The first line contains an integer, n (the total number of clouds).

The second line contains n space-separated binary integers describing clouds $c_0, c_1, \ldots, c_{n-1}$.

- If $c_i = 0$, the i^{th} cloud is an ordinary cloud.
- If $c_i = 1$, the i^{th} cloud is a thundercloud.

Constraints

- $2 \le n \le 100$
- $c_i \in \{0,1\}$
- $c_0 = c_{n-1} = 0$

Output Format

Print the minimum number of jumps needed to win the game.

Sample Input 0

7 0 0 1 0 0 1 0

Sample Output 0

4

Sample Input 1

6 0 0 0 0 1 0

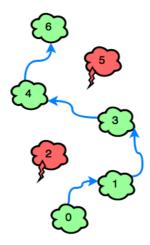
Sample Output 1

3

Explanation

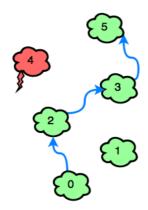
Sample Case 0:

Because c_2 and c_5 in our input are both 1, Emma must avoid c_2 and c_5 . Bearing this in mind, she can win the game with a minimum of 4 jumps:



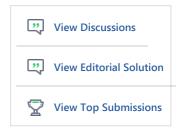
Sample Case 1:

The only thundercloud to avoid is \emph{c}_{4} . Emma can win the game in $\emph{3}$ jumps:



Easy Submitted 38620 times Max Score 20

Need Help?



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Suggest Edits

f ⊌ in

```
C++14
 Current Buffer (saved locally, editable) & 🗸 🖸
                                                                                                                          *
 1 ▼ #include <iostream>
 2 #include <vector>
 3 #include <algorithm>
 4 #include <iterator>
 5 #include <cassert>
   #define speed std::ios_base::sync_with_stdio(false); std::cin.tie(nullptr); std::cout.tie(nullptr)
 8
   int main()
 9 ₹ {
10
        speed;
11
        int N; std::cin>>N;
12
        assert(2<=N && N<=100);
13
14
        std::vector<int> vec; vec.reserve(N);
15
        copy_n(std::istream_iterator<int>(std::cin), N, back_inserter(vec));
16
17
        int count = 0;
        for(size_t i=0; i<vec.size()-1;)</pre>
18
19 ▼
20 ▼
            if(vec[i+2] != 1)
21 •
22
                 ++count;
23
                 i += 2;
                 //std::cout <<"if "<<i<<" "<< count << std::endl;
24
25
            }
26
            else
27
28
                 ++count;
29
                 ++i;
30
                 //std::cout <<"else "<<i<<" "<< count << std::endl;</pre>
31
32
        }
33
        std::cout << count << std::endl;</pre>
34
        return 0;
35
    }
36
                                                                                                               Line: 30 Col: 15
```

<u>**1**</u> <u>Upload Code as File</u> ☐ Test against custom input

Run Code

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