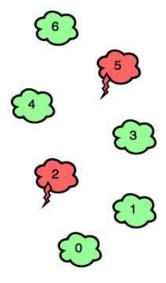
# Jumping on the Clouds



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+2.

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  $c_0, c_1, \ldots, c_{n-1}$ .

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

#### **Constraints**

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

## **Output Format**

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

#### Sample Input 0

7 0010010

# Sample Input 1

6 000010

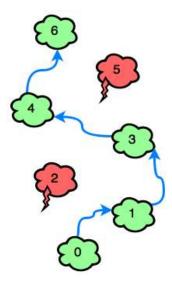
## **Sample Output 1**

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  $c_4$ . Emma can win the game in 3 jumps:

