

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, \dots, 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

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

Output Format

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

Sample Input 0

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7
0 0 1 0 0 1 0
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Sample Output 0