

## B. Secret Information

time limit per test: 2 seconds  
 memory limit per test: 256 megabytes  
 input: standard input  
 output: standard output

Little known hacker Heaven just got access to the secret information about problems of some major programming contest. He wants to change statement of one of the problems to sabotage the contest.

For Heaven, initial and target statements are just strings of zeroes and ones. He can take any substring of initial statement and negate it — replace each zero with one, and each one with zero.

Heaven would like to leave no trace of his actions, so he wants to minimize the number of steps in turning initial statement to target.

### Input

The first line contains one integer  $n$  ( $1 \leq n \leq 200000$ ) — the length of the strings.

Then two strings of «0» and «1» follow — the binary codes of initial and target statement.

### Output

Output one integer — the minimal possible number of steps.

### Examples

<b>input</b>	<a href="#">Copy</a>
6 101010 110011	
<b>output</b>	<a href="#">Copy</a>
2	
<b>input</b>	<a href="#">Copy</a>
7 1010101 0011100	
<b>output</b>	<a href="#">Copy</a>
3	

### ICPC Assiut Advanced Newcomers 2023

Private

Participant



#### → Group Contests

- ICPC Assiut Advanced Newcomers 2023 Contest 5
- ICPC Assiut Advanced Newcomers 2023 Contest 4
- ICPC Assiut Advanced Newcomers 2023 Contest 3
- ICPC Assiut Advanced Newcomers Practice #1
- ICPC Assiut Advanced Newcomers 2023 Contest 2
- ICPC Assiut Advanced Newcomers 2023 Onsite Contest 2
- ICPC Assiut Advanced Newcomers 2023 Contest 1
- ICPC Assiut Advanced Newcomers 2023 Onsite Contest 1

### ICPC Assiut Advanced Newcomers 2023 Contest 1

Finished

Practice



#### → Virtual participation

Virtual contest is a way to take part in past contest, as close as possible to participation on time. It is supported only ICPC mode for virtual contests. If you've seen these problems, a virtual contest is not for you - solve these problems in the archive. If you just want to solve some problem from a contest, a virtual contest is not for you - solve this problem in the archive. Never use someone else's code, read the tutorials or communicate with other person during a virtual contest.

[Start virtual contest](#)

#### → Submit?

Language: GNU G++20 11.2.0 (64 bit, w)