

# Longest Palindromic Substring

A palindrome is a string that is the same as its reverse. Example "malayalam", "dad", "appa" etc. In this problem you are asked to find the length of the longest contiguous substring of a given string, which is a palindrome.

## Input

The first line consists of a single integer N, the no. of characters in the string.  $1 \leq N \leq 100000$ .

Second line is a string with N characters, where the characters are always lowercase english alphabets, ie 'a' to 'z'.

## Output

A single line with an integer representing the length of longest palindromic substring.

## Example

**Input:**

5  
ababa

**Output:**

5