↑ Domains ③ Contests Attempting to reconnect in Reconnect Provided Pro
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Circular Palindromes  by shaka_shadows
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A palindrome is a string that reads the same from left to right as it does from right to left. Given a string, $S$ , of $N$ lowercase English letters, we define a $k$ -length rotation as cutting the first $k$ characters from the beginning of $S$ and appending them to the end of $S$ . For each $S$ , there are $N$ possible $k$ -length rotations (where $0 \le k < N$ ). See the $E$ xplanation section for examples.
Given $N$ and $S$ , find all $N$ $k$ -length rotations of $S$ ; for each rotated string, $S_k$ , print the maximum possible length of any palindromic substring of $S_k$ on new line.
Input Format
Constraints
$ullet$ $1 \leq N \leq 5  imes 10^5$
$ullet \ 0 \leq k < N$
ullet $S$ is comprised of lowercase English letters.
There should be $N$ lines of output, where each line $k$ contains an integer denoting the maximum length of any palindromic substring of rotation $S_k$ .  Sample Input 0  13  aaaaabbbbaaaa
Sample Output 0
12 12 10 8 8 9 9 11 13 11 9 8 8
Sample Input 1
7 cacbbba
Sample Output 1
3 3 3 3 3 3 3 3
Sample Input 2
12 eededdeedede

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