3119. Maximum Number of Potholes That Can Be

Fixed Premium

Medium ♥ Topics © Companies ♥ Hint

You are given a string road, consisting only of characters "x" and ".", where each "x" denotes a *pothole* and each "." denotes a smooth road, and an integer budget.

In one repair operation, you can repair n consecutive potholes for a price of n+1.

Return the **maximum** number of potholes that can be fixed such that the sum of the prices of all of the fixes **doesn't go over** the given budget.

Example 1:

Input: road = "..", budget = 5

Output: 0

Explanation:

There are no potholes to be fixed.

Example 2:

Input: road = "..xxxxx", budget = 4

Output: 3

Explanation:

We fix the first three potholes (they are consecutive). The budget needed for this task is 3 + 1 = 4.

Example 3:

Input: road = "x.x.xxx...x", budget = 14

Output: 6

Explanation:

We can fix all the potholes. The total cost would be (1 + 1) + (1 + 1) + (3 + 1) + (1 + 1) = 10 which is within our budget of 14.

Constraints:

• 1 <= budget <= 10⁵ + 1

 $1 \le \text{road.length} \le 10^5$

- road consists only of characters '.' and 'x'.

Yes No

Seen this question in a real interview before? 1/5

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String Greedy Sorting

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Geico 6

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Discussion (2)

Microsoft 3

♀ Hint 2

Sort them by their length.

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