3597. Partition String

Solved

Medium Topics Hint

Given a string `s`, partition it into **unique segments** according to the following procedure:

- Start building a segment beginning at index 0.
- Continue extending the current segment character by character until the current segment has not been seen before.
- Once the segment is unique, add it to your list of segments, mark it as seen, and begin a new segment from the next index.
- Repeat until you reach the end of `s`.

Return an array of strings `segments`, where `segments[i]` is the i^{th} segment created.

Example 1:

Input: s = "abbccccd"

Output: ["a","b","bc","c","cc","d"]

Explanation:

Index	Segment After Adding	Seen Segments	Current Segment Seen Before?	New Segment	Updated Seen Segments
0	"a"	[]	No	""	["a"]
1	"b"	["a"]	No	""	["a", "b"]
2	"b"	["a", "b"]	Yes	"b"	["a", "b"]
3	"bc"	["a", "b"]	No	""	["a", "b", "bc"]
4	"c"	["a", "b", "bc"]	No	""	["a", "b", "bc", "c"]
5	"c"	["a", "b", "bc", "c"]	Yes	"c"	["a", "b", "bc", "c"]
6	"cc"	["a", "b", "bc", "c"]	No	""	["a", "b", "bc", "c", "cc"]
7	"d"	["a", "b", "bc", "c", "cc"]	No	""	["a", "b", "bc", "c", "cc", "d"]

Hence, the final output is `["a", "b", "bc", "c", "cc", "d"]`.

Example 2:

Input: s = "aaaa"

Output: ["a","aa"]

Explanation:

Index	Segment After Adding	Seen Segments	Current Segment Seen Before?	New Segment	Updated Seen Segments
0	"a"	[]	No	""	["a"]
1	"a"	["a"]	Yes	"a"	["a"]
2	"aa"	["a"]	No	""	["a", "aa"]
3	"a"	["a", "aa"]	Yes	"a"	["a", "aa"]

Hence, the final output is `["a", "aa"]`.

Constraints:

- `1 <= s.length <= 10^5`
- `s` contains only lowercase English letters.

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

Yes No

Accepted 35.175/61.1K | Acceptance Rate 57.6%

Topics

Hint 1

Discussion (27)