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string based top 15 problem commonly asked in interview questions.
give input and output of the problem.
list 5 easy, 5 medium, 5 hard difficulty problems.

Sure, I'll list out some common string-based problems often asked in interviews, categorized by difficulty. Each problem will include an example input and output.

Easy

1. Reverse a String

- Input: `"hello"`
- Output: `"olleh"`

2. Check for Palindrome

- Input: `"madam"`
- Output: `True`

3. Count Vowels

- Input: `"hello world"`
- Output: `3`

4. String Compression

- Input: `"aabcccccaaa"`
- Output: `"a2b1c5a3"`

5. First Non-Repeating Character

- Input: `"swiss"`
- Output: `"w"`

Medium

1. Longest Substring Without Repeating Characters

- Input: `"abcabcbb"`
- Output: `3` (Substring: `"abc"`)

2. Anagrams

- Input: `"listen", "silent"`
- Output: `True`

3. Palindrome Substring Count

- Input: `"aaa"`
- Output: `6` (Substrings: `"a"`, `"a"`, `"a"`, `"aa"`, `"aa"`, `"aaa"`)

4. Valid Parentheses

- Input: `"([)]{}"`
- Output: `True`

5. Find the Longest Common Prefix

- Input: `["flower", "flow", "flight"]`
- Output: `"fl"`

Hard

1. Longest Palindromic Substring

Get citation

- **Input:** ``"babad"```
- **Output:** ``"bab"``` or ``"aba"```

2. Substring with Concatenation of All Words

- **Input:** ``"barfoothefoobarman", ["foo", "bar"]```
- **Output:** ``[0, 9]```

3. Regular Expression Matching

- **Input:** ``"aa", "a*"``
- **Output:** ``True```



4. Edit Distance

- **Input:** ``"horse", "ros"```
- **Output:** ``3```


5. Longest Repeating Substring

- **Input:** ``"banana"```
- **Output:** ``"ana"``` (Length: ``3```)

Feel free to ask for more details or explanations on any of these problems!



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