

Problem List

DescriptionEditorialSolutionsSubmissions

2796. Repeat StringPremium

Solved

Easy

Write code that enhances all strings such that you can call the `string.replicate(x)` method on any string and it will return repeated string `x` times.
Try to implement it without using the built-in method `string.repeat`.

Example 1:

Input: `str = "hello", times = 2`
Output: `"hellohello"`
Explanation: `"hello"` is repeated 2 times

Example 2:

Input: `str = "code", times = 3`
Output: `"codecodecode"`
Explanation: `"code"` is repeated 3 times

Example 3:

Input: `str = "js", times = 1`
Output: `"js"`
Explanation: `"js"` is repeated 1 time

Constraints:

1 <= times <= 10⁵

1 <= str.length <= 1000

Follow up:

Let's assume, for the sake of simplifying analysis, that concatenating strings is a constant time operation $O(1)$. With this assumption in mind, can you write an algorithm with a runtime complexity of $O(\log n)$?

Seen this question in a real interview before?

1/5

YesNo

Accepted1.9KSubmissions2KAcceptance Rate93.3%

Discussion(0)

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</> Code

TypeScriptAuto

```
1 declare global {
2   interface String {
3     replicate(times: number): string;
4   }
5 }
6
7 String.prototype.replicate = function(times): string {
8
9   var replt = "";
10  for (var i = 0; i < times; i++) {
11    replt += this
12  }
13
14  return replt;
15
16 }
```

SavedLn 12, Col 6

TestcaseTest Result

AcceptedRuntime: 49 ms

Case 1Case 2Case 3

Input