



Day 18

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Mock<sup>new</sup>

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July LeetCode Challenge!



Description

Solution

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i Ruby

## 880. Decoded String at Index

Medium

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An encoded string  $S$  is given. To find and write the *decoded* string to a tape, the encoded string is read **one character at a time** and the following steps are taken:

- If the character read is a letter, that letter is written onto the tape.
- If the character read is a digit (say  $d$ ), the entire current tape is repeatedly written  $d-1$  more times in total.

Now for some encoded string  $S$ , and an index  $K$ , find and return the  $K$ -th letter (1 indexed) in the decoded string.

### Example 1:

**Input:**  $S = \text{"leet2code3"} , K = 10$

**Output:**  $\text{"o"}$

**Explanation:**

The decoded string is

$\text{"leetleetcodeleetleetcodeleetleetcode"}$ .

The 10th letter in the string is  $\text{"o"}$ .

### Example 2:

**Input:**  $S = \text{"ha22"} , K = 5$

**Output:**  $\text{"h"}$

**Explanation:**

The decoded string is  $\text{"hahahaha"}$ . The 5th letter is  $\text{"h"}$ .

```
1 # @param {String} s
2 # @param {Integer} k
3 # @return {String}
4 def decode_at_index(s, k)
5
6   end
```

Problems

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Console ▾

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