Number of Steps to Reduce a Number in Binary Representation to One (/contest/weekly-contest-183/problems/number-of-steps-to-reduce-a-number-in-binary-representation-to-one/)

Submission Detail

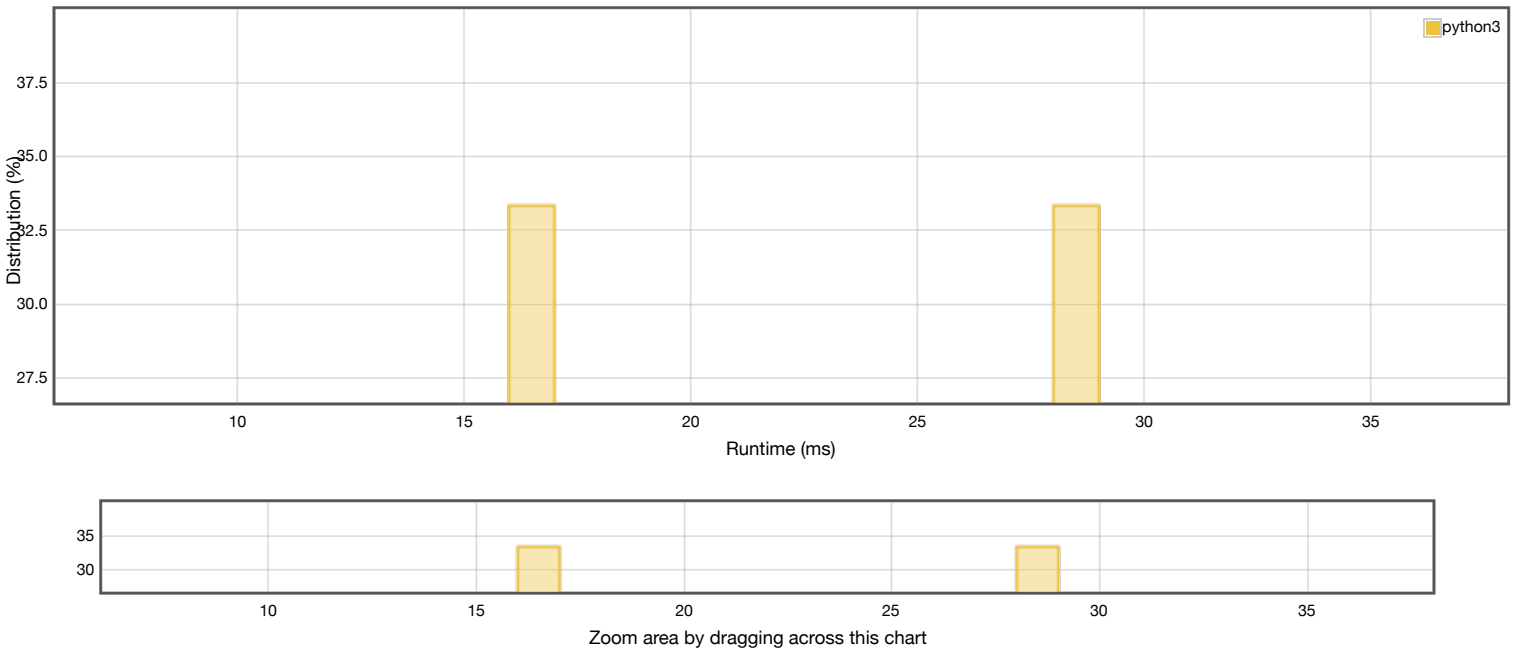
73 / 73 test cases passed.

Status: Accepted

Runtime: **68 ms**
Memory Usage: **13.9 MB**

Submitted: **15 minutes ago**

Accepted Solutions Runtime Distribution



Accepted Solutions Memory Distribution

Sorry. We do not have enough accepted submissions to show distribution chart.

Invite friends to challenge **Number of Steps to Reduce a Number in Binary Representation to One**

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Submitted Code: 15 minutes ago

Language: python3

Edit Code

```python
class Solution:
    def numSteps(self, s: str) -> int:
        s = list(int(d) for d in s)[::-1]
        steps = 0
        num = 0

        # Convert from binary to decimal
        for power in range(len(s)):
            if s[power] == 0:
                num += 0
            else:
                num += pow(2, power)

        while num != 1:
            steps += 1
```

```
16
17              if num % 2 == 0:
18                  # Even
19                  num = num//2
20              else:
21                  # Odd
22                  num += 1
23
24          return steps
```

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