RecursionPath08 - Count 8

Java May'19 DSA Recursion 1 - 2 days 13:50:20

Given a non-negative int n, compute recursively (no loops) the count of the occurrences of 8 as a digit, except that an 8 with another 8 immediately to its left counts double, so 8818 yields 4.

Note that mod (%) by 10 yields the rightmost digit (126 % 10 is 6), while divide (/) by 10 removes the rightmost digit (126 / 10 is 12).

Input

On the first line you will be given n.

Output

On the only output line you should print the count of 8s.

Constraints

n>=0

Sample tests

Input

```
8
```

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Output

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Submit solution

My submissions
All submissions
Best submissions

Points: 100 (partial)
Time limit: 0.5s
Memory limit: 64M
Author: stelyan

Tags
Recursion
Difficulty
Easy

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Input

818 Copy

Output

2 Copy

Clarifications

No clarifications have been made at this time.