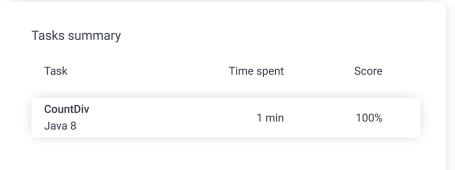
Codility_

Candidate Report: trainingA4S8W9-QP4

Check out Codility training tasks

Test Name:

Summary Review (0) Timeline





Tasks Details

Ta

1. CountDiv
Compute number of integers divisible by
k in range [a..b].

Task Score

Correctness Performance

100%

J . .

Task description

Write a function:

class Solution { public int solution(int A, int B, int K); }

that, given three integers A, B and K, returns the number of integers within the range [A..B] that are divisible by K, i.e.:

 $\{ i : A \le i \le B, i \mod K = 0 \}$

For example, for A = 6, B = 11 and K = 2, your function should return 3, because there are three numbers divisible by 2 within the range [6..11], namely 6, 8 and 10.

Write an efficient algorithm for the following assumptions:

- A and B are integers within the range [0..2,000,000,000];
- K is an integer within the range [1..2,000,000,000];
- A ≤ B.

Copyright 2009–2020 by Codility Limited. All Rights Reserved. Unauthorized copying, publication or disclosure prohibited.

Solution

100%

Programming language used: Java 8

Total time used: 1 minutes

Effective time used: 1 minutes

Notes: not defined yet

Task timeline



Code: 04:57:14 UTC, java, final, show code in pop-up score: 100

1 // you can also use imports, for example:

// job can also use imports, for example:
// import java.util.*;

// you can write to stdout for debugging purposes, e.g.
// System.out.println("this is a debug message");

class Solution {

Analysis summary

The solution obtained perfect score.

Analysis 👩

Detected time complexity: O(1)

expand all	Example tests	
example A = 6, B = 11, K = 2	√ (ОК
expand all	Correctness tests	
► simple A = 11, B = 345, K	√ (ОК
► minimal A = B in {0,1}, K = 1	√ (ОК
extreme_ifemp		ОК
extreme_endp verify handling of runs	oints ✓ 0 range endpoints, multiple	OK
expand all	Performance tests	
► big_values A = 100, B=123M+	√ (ОК
► big_values2 A = 101, B = 123M	√ (1+, K = 10K	ОК
► big_values3 A = 0, B = MAXINT	, K in {1,MAXINT}	OK
► big_values4	√ (ОК

The PDF version of this report that may be downloaded on top of this site may contain sensitive data including personal information. For security purposes, we recommend you remove it from your system once reviewed.