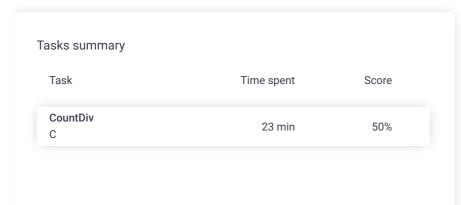
Codility_

Candidate Report: trainingAGT2EY-KMH

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Test Name:

Summary Timeline





Tasks Details

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

Correctness Performance **②**25% 75%

Task description

Write a function:

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.

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Solution

Task timeline

Programming language used: C

Total time used: 23 minutes

Effective time used: 23 minutes

Notes: not defined yet



06:38:41 07:01:16 Code: 07:01:16 UTC, c, final, show code in pop-up score: 50 // you can write to stdout for debugging purposes, e.g. // printf("this is a debug message\n"); 3 int solution(int A, int B, int K) { 4 // write your code in C99 (gcc 6.2.0) 6 int ret = (B-A)/K; int tmp = ((B-A)%K-B%K+A%K)>=0?1:0; 7 //printf("%d,%d",(int)((B-A)/K),((B-A)%K-B%K+A%K)>=0?18

```
9    return ret + tmp;
10 }
```

Analysis summary

The following issues have been detected: wrong answers.

For example, for the input [1, 1, 11] the solution returned a wrong answer (got 1 expected 0).

Analysis ?

expar	nd all	Example	tests	
•			✓	OK
		= 11, K = 2		
	ose all	Correctnes		OK
•	- 1	= 345, K = 17	•	UK
1.	0.001 s	ОК		
•	minimal A = B in {0,1}, K = 11		Х	WRONG ANSWER got 1 expected 0
1.	0.001 s	ОК		
2.	0.001 s	WRONG ANSWER, got 1 ex	cpected C	
•	extrem	e_ifempty	Х	WRONG ANSWER
	A = 10, B	= 10, K in {5,7,20}		got 1 expected 0
1.	0.001 s	WRONG ANSWER, got 1 ex	pected 0)
2.	0.001 s	ОК		
3.	0.001 s WRONG ANSWER, got 1 expected 0			
•		e_endpoints ndling of range endpoints, runs	Х	WRONG ANSWER got 2 expected 1
1.	0.001 s	ок		
2.	0.001 s	ОК		
3.	0.001 s	ОК		
4.	0.001 s WRONG ANSWER, got 2 expected 1			
5.	0.001 s	ОК		
6.	0.001 s	ОК		
collar	ose all	Performano	e tests	
•	big_val A = 100,	ues B=123M+, K=2	√	ОК
1.	0.001 s	ОК		
•	big_values2 A = 101, B = 123M+, K = 10K		Х	WRONG ANSWER got 12346 expected 12345
1.	0.001 s WRONG ANSWER, got 12346 expected 12345			
•	big_values3 A = 0, B = MAXINT, K in {1,MAXINT}		√	OK
1.	0.001 s	ок		
2.	0.001 s	ОК		
•	big_values4 A, B, K in {1,MAXINT}		√	OK

- 1. 0.001 s **OK**
- 2. 0.001 s **OK**
- 3. 0.001 s **OK**
- 4. 0.001 s **OK**

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