Codility_

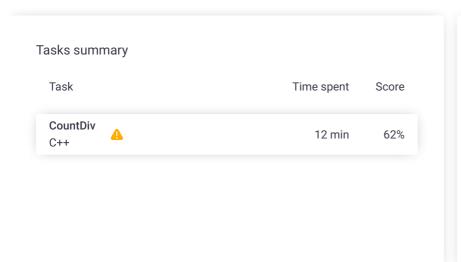
CodeCheck Report: training5UT447-9JR

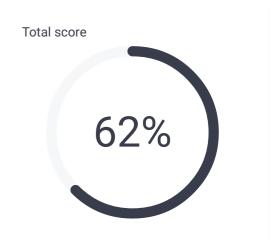
Test Name:

Summary

Timeline 👜 Al Assistant Transcript

Check out Codility training tasks





Tasks Details

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

Task Score

62%

Correctness

50%

Total time used:

Effective time used:

Performance

75%

12 minutes

12 minutes

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 $\mbox{\bf efficient}$ 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

Programming language used: C++

Notes: not defined yet

Task timeline



Code: 15:26:55 UTC, cpp, final, score: **62**

show code in pop-up

ililai, score. 02

- 1 // you can use includes, for example:
- 2 // #include <algorithm>
- 3

Test results - Codility

Analysis summary

The following issues have been detected: wrong answers.

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

Analysis

<u> </u>	nd all Example tes	ts
•	example	✓ OK
	A = 6, B = 11, K = 2	
	expand all Correctness tests	
•	simple A = 11, B = 345, K = 17	✓ OK
•	minimal	× WRONG ANSWER
	A = B in {0,1}, K = 11	got 0 expected 1
1.	0.001 s WRONG ANSWER, got 0 expected 1	
2.	0.001 s OK	
>	extreme_ifempty A = 10, B = 10, K in {5,7,20}	✓ OK
•	extreme_endpoints	× WRONG ANSWER
	verify handling of range endpoints, multiple runs	got 7 expected 8
1.	0.001 s OK	
2.	0.001 s OK	
3.	0.001 s OK	
4.	0.001 s OK	
5.	0.001 s WRONG ANSWER, got 7 exp	pected 8
6.	0.001 s WRONG ANSWER, got 6 expected 7	
expand all Performance tests		
•	big_values A = 100, B=123M+, K=2	✓ OK
•	big_values2	✓ OK
	A = 101, B = 123M+, K = 10K	
•	big_values3	X WRONG ANSWER
	A = 0, B = MAXINT, K in {1,MAXINT}	got 1 expected 2
1.	0.001 s OK	
2.	0.001 s WRONG ANSWER, got 1 expected 2	
•	big_values4	✓ OK
	A, B, K in {1,MAXINT}	