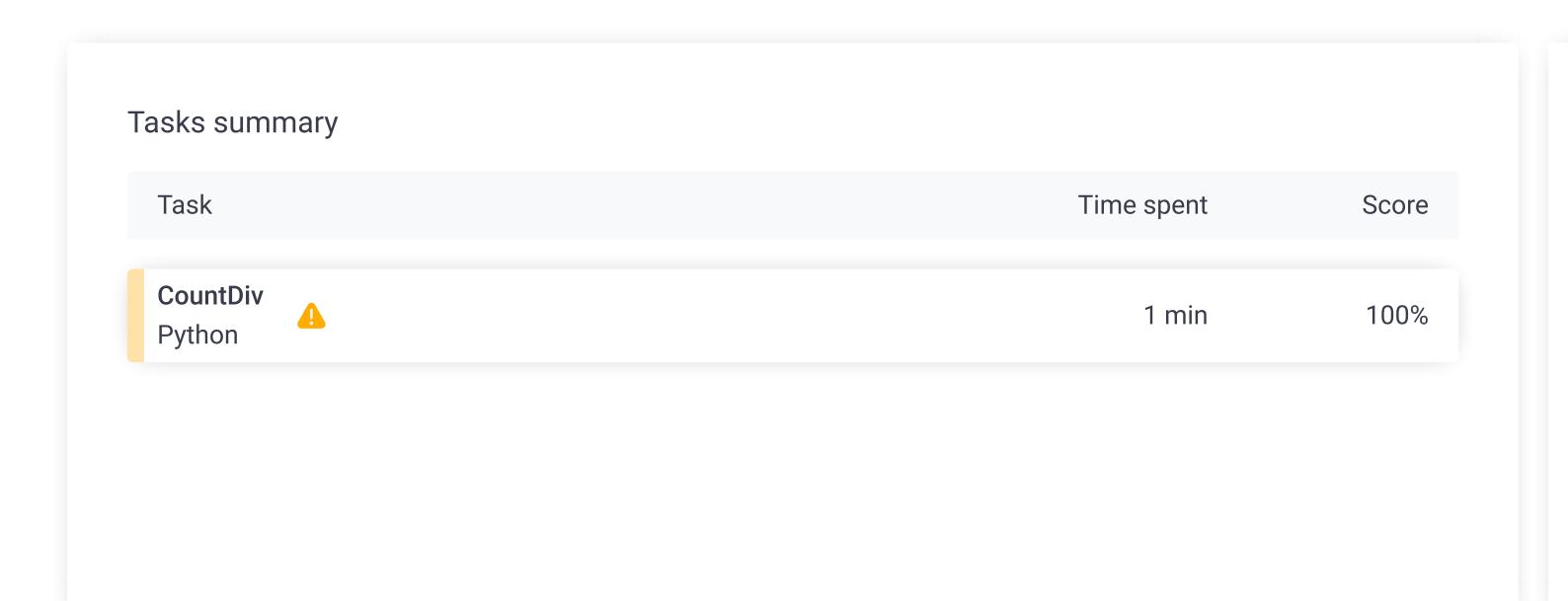
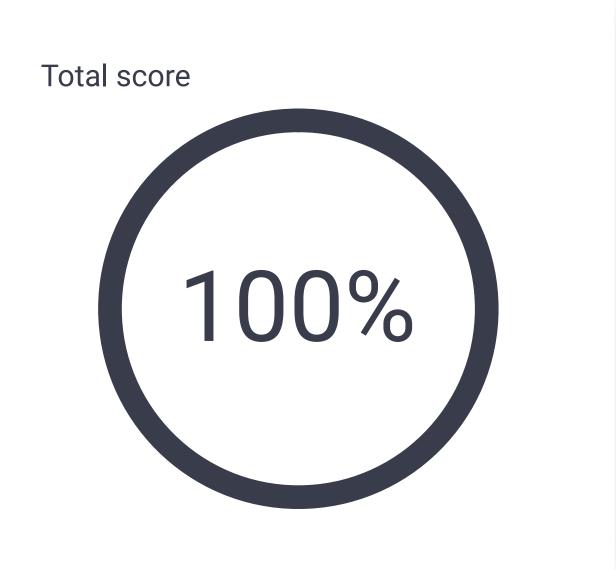
# CodeCheck Report: trainingGA99AM-4C9

Test Name:

Timeline Summary



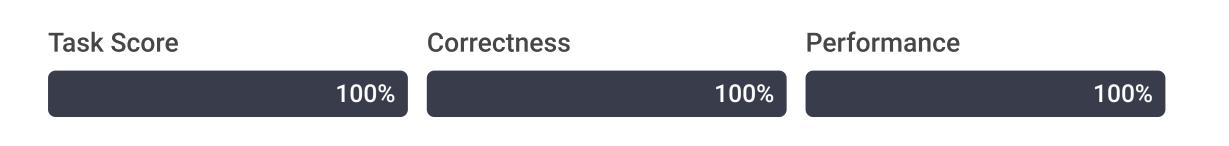






1. CountDiv
Compute numb

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



### Task description

## Write a function:

def solution(A, B, 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.

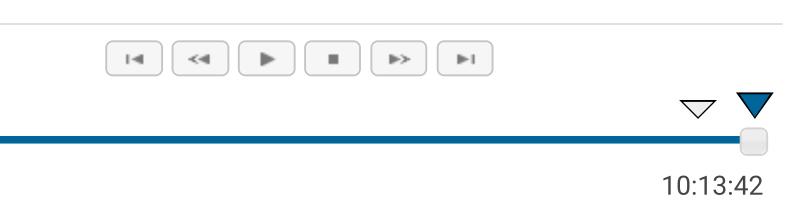
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#### Solution



#### Task timeline

10:13:10



·	Coo 100	ode: 10:13:42 UTC, py, final, score: show code in	pop-up
	1	, i i i i i i i i i i i i i i i i i i i	
	2 3		
	4	<pre>def solution(A, B, K):</pre>	
	5	# write your code in Python 3.6	
	6	if K == 1:	
	7	return B-A+1	
	8	elif A == B:	
	9	if A%K == 0:	
	10	return 1	
	11	else:	
	12	return 0	
	13	elif K > B:	
	14	return 0	
	15	else:	
	16	if A%K == 0:	
	17	return B//K-A//K+1	
	18	else:	
	19	return B//K-A//K	

## Analysis summary

The solution obtained perfect score.

A, B, K in {1,MAXINT}

# Analysis

# Detected time complexity: O(1)

