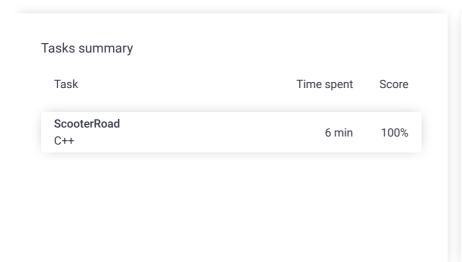
<u>Test results - Codility</u>

CodeCheck Report: trainingHURCA9-U92

Test Name:

Check out Codility training tasks

Summary Timeline 👜 Al Assistant Transcript





Tasks Details

1. ScooterRoad

Jedium

Calculate the minimum time that you need to get through the diversified road to your work.

Task Score

Correctness

100%

Performance

100%

100%

Task description

You have to be at your work as soon as possible. The road on your route to work may consist of two types of surface: asphalt or sand. To simplify the description, it will be denoted by a string R consisting only of the letters: "A" for an asphalt segment and "S" for a sand segment. All segments represent the same distance. For example, R = "SAAS" describes a road comprising of sand, asphalt, asphalt and sand segments.

When you go on foot, you need 20 minutes to pass through an asphalt segment and 30 minutes through a sand segment. You also have an electric scooter, which needs 5 minutes to pass through an asphalt segment and 40 minutes through a sand segment.

You start your journey on the scooter, but at any point you can get off the scooter and go on foot for the rest of the journey. What is the shortest time in which you can get to work?

Write a function:

int solution(string &R);

that, given a string R of length N, representing the road to work, returns the minimum time that you need to get to work.

Solution

Programming language used: C++

Total time used: 6 minutes

Effective time used: 6 minutes

Notes: not defined yet

Task timeline

11:36:54 11:42:04

Code: 11:42:04 UTC, cpp, final, score: **100**

show code in pop-up

1 // you can use includes, for example:

// #include <algorithm>

Examples:

- 1. Given R = "ASAASS", your function should return 115. You ride on the scooter over the first four segments ("ASAA") in 5 + 40 + 5 + 5 = 55 and then you go on foot through "SS" in 30 + 30 = 60. Altogether, your journey will take 55 + 60 = 115.
- 2. Given R = "SSA", the function should return 80. You do not ride on the scooter at all, and you go on foot in 30 + 30 + 20 = 80.
- 3. Given R = "SSSSAAA", the function should return 175. You ride on the scooter all the time in 40 + 40 + 40 + 40 + 5 + 5 + 5 = 175.

Write an efficient algorithm for the following assumptions:

- N is an integer within the range [1..100,000];
- string R is made only of the characters 'S' and/or ' Δ '

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Test results - Codility

```
#include <vector>
5
     // you can write to stdout for debugging purposes,
     // cout << "this is a debug message" << endl;</pre>
6
     int cost(bool scooter,bool sand){
         vector<vector<int>> costs = {{20,30},{5,40}};
9
10
         return costs[scooter][sand];
11
     }
12
     int solution(string &R) {
13
14
        int n = R.size();
        vector<int> foot(n+1,0);
15
16
        for(int i=n-1;i>=0;i--){
            foot[i] = foot[i+1] + cost(false,R[i]=='S')
17
18
        int ans = foot[0];
19
20
        int c = 0;
21
        for(int i=0;i<n;i++){</pre>
22
            c+=cost(true,R[i]=='S');
23
            ans=min(ans,c+ foot[i+1]);
24
25
        return ans;
26
     }
```

Analysis summary

The solution obtained perfect score.

Analysis

Detected time complexity: **O(N)**

ра	nd all	xample tests
•	example1 First example test.	✓ OK
•	example2 Second example test.	√ OK
•	example3 Third example test.	√ OK
ра	nd all C	rrectness tests
•	very_short_road N = 1.	✓ OK
•	short_road N <= 3.	√ OK
•	only_scooter Only scooter is used.	√ OK
•	only_walking Scooter is not used at a	✓ OK I.
•	all_asphalt_first Road can be described "AAASSS". N <= 200	✓ OK
•	small_random_cha Getting off the scooter position. N <= 200.	
ра	nd all Pe	formance tests
•	medium_random Medium random tests.	✓ OK V <= 10,000.

Test results - Codility

t Medi	lium_random_change_poin ✓ C um tests, getting off the scooter andom position. N <= 10,000.	K	
•	big_random Big random tests.	√	OK
•	big_random_change_point Big tests, getting off the scooter at a random position.	√	OK
•	big_corner_cases Big tests with corner cases.	√	OK

CodeCheck Report: trainingWE98ZF-T6D

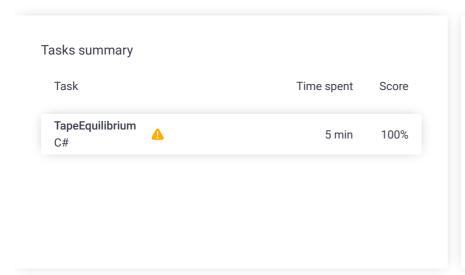
Timeline

Test Name:

Summary

Al Assistant Transcript

Check out Codility training tasks





Tasks Details



Task description

A non-empty array A consisting of N integers is given. Array A represents numbers on a tape.

Any integer P, such that 0 < P < N, splits this tape into two nonempty parts: A[0], A[1], ..., A[P-1] and A[P], A[P+1], ..., A[N-1].

The difference between the two parts is the value of: |(A[0] + A[1])|+ ... + A[P - 1]) - (A[P] + A[P + 1] + ... + A[N - 1])|

In other words, it is the absolute difference between the sum of the first part and the sum of the second part.

For example, consider array A such that:

- A[0] = 3
- A[1] = 1
- A[2] = 2
- A[3] = 4
- A[4] = 3

We can split this tape in four places:

- P = 1, difference = |3 10| = 7
- P = 2, difference = |4 9| = 5
- P = 3, difference = |6 7| = 1
- P = 4, difference = |10 3| = 7

Solution

Programming language used:	C#	
Total time used:	5 minutes	•
Effective time used:	5 minutes	•
Notes:	not defined yet	

Task timeline

09:50:14 09:54:27

Code: 09:54:27 UTC, cs, show code in pop-up final, score: 100

- 1 using System;
- // you can also use other imports, for example: 3
 - // using System.Collections.Generic;

Write a function:

```
class Solution { public int solution(int[] A); }
```

that, given a non-empty array A of N integers, returns the minimal difference that can be achieved.

For example, given:

A[0] = 3

A[1] = 1

A[2] = 2

A[3] = 4

A[4] = 3

the function should return 1, as explained above.

Write an efficient algorithm for the following assumptions:

- N is an integer within the range [2..100,000];
- each element of array A is an integer within the range [-1,000..1,000].

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Test results - Codility

```
// you can write to stdout for debugging purposes,
     // Console.WriteLine("this is a debug message");
6
     class Solution {
8
         public int solution(int[] A) {
10
            int 1 = A[0],r = A[1];
11
             for (var i =1;++i <A.Length; r += A[i]);</pre>
            int min = Math.Abs(1-r);
12
             for(var P =1;++P<A.Length;){</pre>
                 int sum = Math.Abs((1 += A[P-1])-(r-=A[
14
15
                 if(sum<min)</pre>
                      min = sum;
16
17
18
             return min;
19
         }
20
     }
```

Analysis summary

The solution obtained perfect score.

Analysis

Detected time complexity: O(N)

хра	ınd all	Example test	5	
	example		✓	ОК
	example test			
хра	ind all C	correctness te	sts	3
	double		✓	OK
	two elements			
	simple_positive		✓	OK
	simple test with positi	ve numbers,		
	length = 5			
	simple_negative		✓	OK
	simple test with negat	ive numbers,		
	length = 5			
	simple_boundary		√	ОК
	only one element on o	ne of the sides		
	small_random		√	OK
	random small, length =	= 100		
	small_range		√	ОК
	range sequence, lengt	h = ~1,000		
	small		✓	ОК
	small elements			
expa	ind all	erformance te	st	S
	medium_random1		√	OK
	random medium, num	bers from 0 to		
	100, length = ~10,000			
	medium_random2	<u>)</u>	√	ОК
	random medium, num	bers from -1,000		
	to 50, length = ~10,000	0		
	large_ones		√	ОК
	large sequence, numb	ers from -1 to 1,		
	length = ~100,000			

Test results - Codility

large_random random large, length = ~100,000	✓ OK	
► large_sequence large sequence, length = ~100,0	✓ OK	
► large_extreme large test with maximal and min values, length = ~100,000	✓ OK imal	

CodeCheck Report: training8EZDNW-6ZN

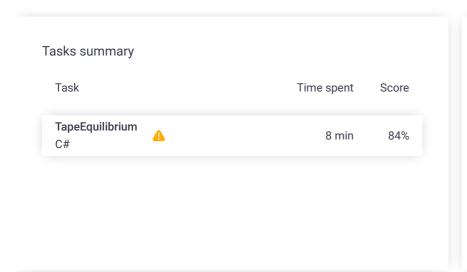
Timeline

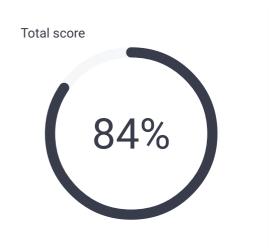
Test Name:

Summary

Al Assistant Transcript

Check out Codility training tasks





Tasks Details



Task description

A non-empty array A consisting of N integers is given. Array A represents numbers on a tape.

Any integer P, such that 0 < P < N, splits this tape into two nonempty parts: A[0], A[1], ..., A[P - 1] and A[P], A[P + 1], ..., A[N - 1].

The difference between the two parts is the value of: |(A[0] + A[1] + ... + A[P-1]) - (A[P] + A[P+1] + ... + A[N-1])|

In other words, it is the absolute difference between the sum of the first part and the sum of the second part.

For example, consider array A such that:

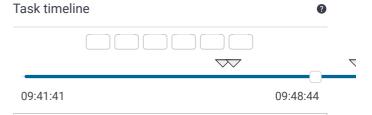
- A[0] = 3
- A[1] = 1
- A[2] = 2
- A[3] = 4
- A[4] = 3

We can split this tape in four places:

- P = 1, difference = |3 10| = 7
- P = 2, difference = |4 9| = 5
- P = 3, difference = |6 7| = 1
- P = 4, difference = |10 3| = 7

Solution

Programming language used:	C#	
Total time used:	8 minutes	•
Effective time used:	8 minutes	•
Notes:	not defined yet	



Code: 09:48:43 UTC, cs, show code in pop-up final, score: 84

1 using System;
2 // you can also use other imports, for example:
3 // using System.Collections.Generic;

Write a function:

```
class Solution { public int solution(int[] A); }
```

that, given a non-empty array A of N integers, returns the minimal difference that can be achieved.

For example, given:

```
A[0] = 3
```

A[1] = 1

A[2] = 2

A[3] = 4

A[4] = 3

the function should return 1, as explained above.

Write an efficient algorithm for the following assumptions:

- N is an integer within the range [2..100,000];
- each element of array A is an integer within the range [-1,000..1,000].

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Test results - Codility

```
// you can write to stdout for debugging purposes,
     // Console.WriteLine("this is a debug message");
6
     class Solution {
8
         public int solution(int[] A) {
10
            int len = A.Length;
11
            int min = Int32.MaxValue;
            int sum = 0;
12
            int suma =0;
            foreach(var i in A)
14
15
                  sum += i;
             for (int i = 0;i<len;i++){</pre>
16
17
                 suma +=A[i];
                 int a =(int)Math.Abs(suma - (sum-suma))
18
19
                 if(a<min)</pre>
20
                      min = a;
21
22
          return min;
23
24
     }
```

Analysis summary

The following issues have been detected: wrong answers.

For example, for the input [-1000, 1000] the solution returned a wrong answer (got 0 expected 2000).

Analysis

Detected time complexity: **O(N)**

expand all		Example test	S	
► exam	nple ple test		✓	ОК
expand all		Correctness te	sts	3
► doub two e	ole ements		X	WRONG ANSWER got 0 expected 2000
		sitive numbers,	✓	OK
	-	e gative numbers,	✓	OK
	le_boundar ne element or	y one of the sides	✓	OK
	ll_random m small, lengt	h = 100	√	ОК
	II_range sequence, len	gth = ~1,000	✓	OK
► sma small	ll elements		X	WRONG ANSWER got 0 expected 20
expand all		Performance to	est	S
rando	ium_randor m medium, nu ength = ~10,00	ımbers from 0 to	√	OK
	ium_randor m medium, nu	m2 Imbers from -1,000	✓	ОК

Test results - Codility

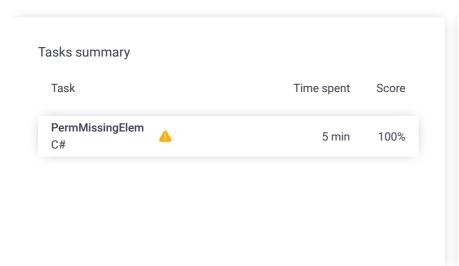
1	to 50	, length = ~10,000		
	•	large_ones large sequence, numbers from -1 to 1, length = \sim 100,000	✓	OK
	•	large_random random large, length = ~100,000	√	OK
	•	large_sequence large sequence, length = ~100,000	√	OK
	•	large_extreme large test with maximal and minimal values, length = ~100,000	✓	OK

CodeCheck Report: trainingWK64SU-SP9

Test Name:

Check out Codility training tasks

Summary Timeline 🛕 Al Assistant Transcript





Tasks Details

1. PermMissingElem Task Score Correctness Performance
Find the missing element in a given permutation.

100%

Task description

An array A consisting of N different integers is given. The array contains integers in the range [1..(N + 1)], which means that exactly one element is missing.

Your goal is to find that missing element.

Write a function:

class Solution { public int solution(int[] A); }

that, given an array A, returns the value of the missing element.

For example, given array A such that:

A[0] = 2

A[1] = 3

A[2] = 1

A[3] = 5

the function should return 4, as it is the missing element.

Write an efficient algorithm for the following assumptions:

- N is an integer within the range [0..100,000];
- · the elements of A are all distinct;
- each element of array A is an integer within the range [1..(N + 1)].

Solution

Programming language used: C#

Total time used: 5 minutes

Effective time used: 5 minutes

Notes: not defined yet

Task timeline

09:32:59 09:37:29

Code: 09:37:29 UTC, cs, final, score: 100

show code in pop-up

1 using System;

- 2 // you can also use other imports, for example:
 - // using System.Collections.Generic;
- 3 4

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Test results - Codility

```
// you can write to stdout for debugging purposes,
     // Console.WriteLine("this is a debug message");
8
     class Solution {
        public int solution(int[] A) {
9
10
             int len = A.Length + 1,
    sum = (int)Math.Ceiling(len/2.0)*(len+(len+1)%2),
11
12
         for(int i = -1;++i<A.Length;)</pre>
13
             summ+=A[i];
15
16
         return sum-summ;
17
         }
18
    }
```

Analysis summary

The solution obtained perfect score.

Analysis

 $\begin{array}{c} \text{O(N) or} \\ \text{O(N} \star \\ \text{log(N))} \end{array}$

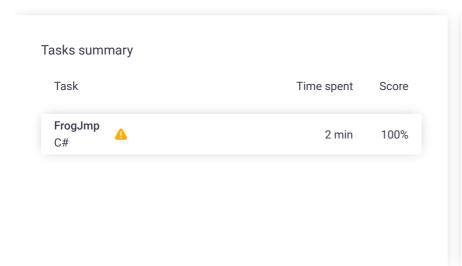
expa	nd all	Example tes	İS	
•	example		✓	OK
	example test			
expa	nd all	Correctness to	ests	3
•	empty_and_sing	gle	√	OK
	empty list and singl	e element		
	missing_first_or	_last	√	OK
	the first or the last e	element is missing		
•	single		√	OK
	single element			
•	double		√	OK
	two elements			
•	simple		√	OK
	simple test			
expa	nd all	Performance to	est	S
•	medium1		√	OK
	medium test, length	ı = ~10,000		
•	medium2		√	OK
	medium test, length	ı = ~10,000		
•	large_range		√	OK
	range sequence, ler	igth = ~100,000		
•	large1		_	OK
	large test, length = -	~100,000	•	
•	large2			OK
	large test, length = -	~100,000	•	

CodeCheck Report: training6PNYVJ-RJR

Test Name:

Check out Codility training tasks

Al Assistant Transcript Summary Timeline





Tasks Details

1. FrogJmp Task Score Count minimal number of jumps from position X to

100%

Performance

100%

100%

Task description

A small frog wants to get to the other side of the road. The frog is currently located at position X and wants to get to a position greater than or equal to Y. The small frog always jumps a fixed distance, D.

Count the minimal number of jumps that the small frog must perform to reach its target.

Write a function:

class Solution { public int solution(int X, int Y, int D); }

that, given three integers X, Y and D, returns the minimal number of jumps from position X to a position equal to or greater than Y.

For example, given:

X = 10

Y = 85

the function should return 3, because the frog will be positioned as follows:

• after the first jump, at position 10 + 30 = 40

Solution

Correctness

Programming language used: C#

Total time used: 2 minutes

Effective time used: 2 minutes

Notes: not defined yet

Task timeline



09:19:11 09:20:34

Code: 09:20:34 UTC, cs, show code in pop-up final, score: 100

1 using System;

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

// using System.Collections.Generic; 3

- after the second jump, at position 10 + 30 + 30 =
- after the third jump, at position 10 + 30 + 30 + 30
 100

Write an efficient algorithm for the following assumptions:

- X, Y and D are integers within the range [1..1,000,000,000];
- X ≤ Y.

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Test results - Codility

```
// you can write to stdout for debugging purposes,
// Console.WriteLine("this is a debug message");

class Solution {
  public int solution(int X, int Y, int D) {
    return (int)Math.Ceiling(((double)Y - X)/D
  }
}
```

Analysis summary

The solution obtained perfect score.

Analysis

Detected time complexity: O(1)

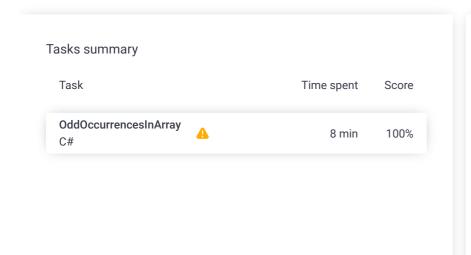
expand all	Exam	ple tests	
example example test		√ OK	
expand all	Correct	ness tests	
simple1		√ OK	
▶ simple2		✓ OK	
extreme_pos no jump needed		√ OK	
► small_extrem one big jump	ne_jump	√ OK	
expand all	Perform	ance tests	
many_jump1 many jumps, D =	= 2	√ OK	
many_jump2 many jumps, D =		√ OK	
many_jump3 many jumps, D =		√ OK	
▶ big extreme	jump	√ OK	
big_extreme_ maximal numbe	r of jumps		

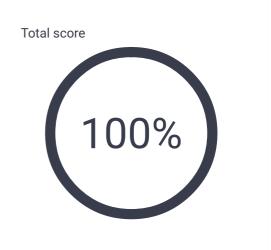
CodeCheck Report: trainingZVE4Y5-NAS

Test Name:

Check out Codility training tasks

Summary Timeline Al Assistant Transcript





Tasks Details

Correctness Performance Task Score **OddOccurrencesInArray** Find value that occurs in odd 100% 100% 100% number of elements.

Task description

A non-empty array A consisting of N integers is given. The array contains an odd number of elements, and each element of the array can be paired with another element that has the same value, except for one element that is left unpaired.

For example, in array A such that:

$$A[0] = 9$$
 $A[1] = 3$ $A[2] = 9$
 $A[3] = 3$ $A[4] = 9$ $A[5] = 7$
 $A[6] = 9$

- the elements at indexes 0 and 2 have value 9.
- the elements at indexes 1 and 3 have value 3,
- the elements at indexes 4 and 6 have value 9,
- the element at index 5 has value 7 and is unpaired.

Write a function:

class Solution { public int solution(int[] A); }

that, given an array A consisting of N integers fulfilling the above conditions, returns the value of the unpaired element.

For example, given array A such that:

Solution

Programming language used: C# Total time used: 8 minutes Effective time used: 8 minutes Notes: not defined yet Task timeline 09:08:31 09:16:08 Code: 09:16:08 UTC, cs, show code in pop-up final, score: 100 1 using System; // you can also use other imports, for example: using System.Collections.Generic;

```
A[0] = 9 A[1] = 3 A[2] = 9 A[3] = 3 A[4] = 9 A[5] = 7
```

the function should return 7, as explained in the example above.

Write an efficient algorithm for the following assumptions:

- N is an odd integer within the range [1..1,000,000];
- each element of array A is an integer within the range [1..1,000,000,000];
- all but one of the values in A occur an even number of times.

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Test results - Codility

```
// you can write to stdout for debugging purposes,
    // Console.WriteLine("this is a debug message");
6
    class Solution {
8
        public int solution(int[] A) {
10
            // Implement your solution here
11
             var hash = new HashSet<int>();
             foreach(var i in A)
12
                 if(hash.Contains(i))
14
                     hash.Remove(i);
15
                     hash.Add(i);
16
17
             foreach (var i in hash)
18
                 return i;
19
             return 0;
20
        }
21
    }
```

Analysis summary

The solution obtained perfect score.

Analysis

Detected time complexity:

O(N) or O(N*log(N))

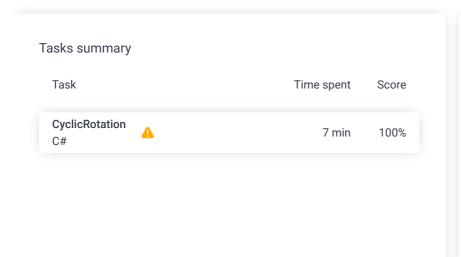
expand all Example tests example 1 example test expand all Correctness tests simple 1 simple test n=5
example test expand all Correctness tests simple1 OK
expand all Correctness tests ▶ simple1 ✓ 0K
▶ simple1 ✓ 0K
·
simple test n=5
Simple test II=3
► simple2 ✓ OK
simple test n=11
► extreme_single_item ✓ 0K
[42]
► small1 ✓ OK
small random test n=201
► small2 ✓ OK
small random test n=601
expand all Performance tests
► medium1 ✓ 0K
medium random test n=2,001
► medium2 ✓ OK
medium random test n=100,003
▶ big1 ✓ OK
big random test n=999,999, multiple
repetitions
▶ big2 ✓ OK
big random test n=999,999

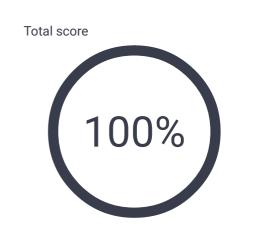
CodeCheck Report: training5PRPKX-QX4

Test Name:

Check out Codility training tasks

Summary Timeline 😉 Al Assistant Transcript





Tasks Details

1. **CyclicRotation**Rotate an array to the right by a given number

Task Score

Correctness

100%

Performance

100% Not assessed

Task description

of steps.

An array A consisting of N integers is given. Rotation of the array means that each element is shifted right by one index, and the last element of the array is moved to the first place. For example, the rotation of array A = [3, 8, 9, 7, 6] is [6, 3, 8, 9, 7] (elements are shifted right by one index and 6 is moved to the first place).

The goal is to rotate array A K times; that is, each element of A will be shifted to the right K times.

Write a function:

that, given an array A consisting of N integers and an integer K, returns the array A rotated K times.

For example, given

$$A = [3, 8, 9, 7, 6]$$

 $K = 3$

the function should return [9, 7, 6, 3, 8]. Three rotations were made:

Solution

Programming language used: C#

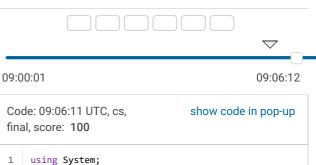
Total time used: 7 minutes

Effective time used: 7 minutes

Notes: not defined yet

Task timeline

2



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

// using System.Collections.Generic;

$$[7, 6, 3, 8, 9] \rightarrow [9, 7, 6, 3, 8]$$

For another example, given

$$A = [0, 0, 0]$$

 $K = 1$

the function should return [0, 0, 0]

Given

$$A = [1, 2, 3, 4]$$

 $K = 4$

the function should return [1, 2, 3, 4]

Assume that:

- N and K are integers within the range [0..100];
- each element of array A is an integer within the range [-1,000..1,000].

In your solution, focus on **correctness**. The performance of your solution will not be the focus of the assessment.

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Test results - Codility

```
// you can write to stdout for debugging purposes,
    // Console.WriteLine("this is a debug message");
6
    class Solution {
8
9
        public int[] solution(int[] A, int K) {
10
             var rotArr = new int[A.Length];
11
             if(rotArr.Length > 0)
                 for (int i = -1, j = A.Length - (K%A.L
12
                 rotArr[i] = A[(j+i)% A.Length];
13
             return rotArr;
14
15
         }
     }
16
```

Analysis summary

The solution obtained perfect score.

Analysis

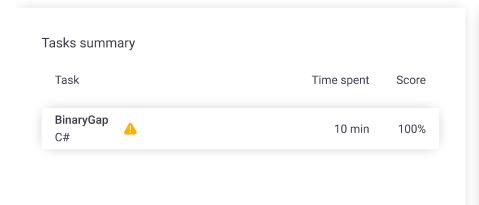
ехра	nd all	Example tests	S	
•	example		✓	OK
	first example test			
•	example2		✓	OK
	second example test	i 		
•	example3		✓	OK
	third example test			
ехра	nd all	Correctness tes	sts	3
•	extreme_empty		✓	OK
	empty array			
•	single		✓	OK
	one element, 0 <= K	<= 5		
•	double		✓	OK
	two elements, K <= N	l		
•	small1		✓	OK
	small functional test	s, K < N		
•	small2		✓	OK
	small functional test	s, K >= N		
•	small_random_a	_	✓	OK
	small random seque	nce, all rotations,		
	N = 15			
•	medium_random		✓	OK
	medium random seq	uence, N = 100		
•	maximal		✓	OK
	maximal N and K			

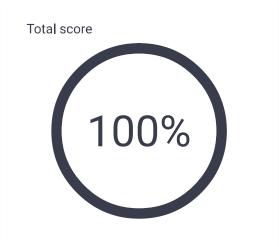
CodeCheck Report: trainingWN9JN2-DDY

Test Name:

Check out Codility training tasks

Summary Timeline 😉 Al Assistant Transcript





Tasks Details

1. BinaryGap

Easy

Find longest sequence of zeros in binary representation of an integer.

Task Score

100%

Correctness

Performance

100% Not assessed

Task description

A binary gap within a positive integer N is any maximal sequence of consecutive zeros that is surrounded by ones at both ends in the binary representation of N.

For example, number 9 has binary representation 1001 and contains a binary gap of length 2. The number 529 has binary representation 1000010001 and contains two binary gaps: one of length 4 and one of length 3. The number 20 has binary representation 10100 and contains one binary gap of length 1. The number 15 has binary representation 1111 and has no binary gaps. The number 32 has binary representation 100000 and has no binary gaps.

Write a function:

class Solution { public int solution(int N); }

that, given a positive integer N, returns the length of its longest binary gap. The function should return 0 if N doesn't contain a

Solution

Programming language used: C#

Total time used: 10 minutes

Effective time used: 10 minutes 3

Notes: not defined yet

Task timeline



binary gap.

For example, given N = 1041 the function should return 5, because N has binary representation 10000010001 and so its longest binary gap is of length 5. Given N = 32 the function should return 0, because N has binary representation '100000' and thus no binary gaps.

Write an efficient algorithm for the following assumptions:

• N is an integer within the range [1..2,147,483,647].

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Test results - Codility

```
Code: 08:55:32 UTC, cs, final,
                                     show code in pop-up
score: 100
1
     using System;
     // you can also use other imports, for example:
2
     // using System.Collections.Generic;
4
5
     // you can write to stdout for debugging purposes,
6
     // Console.WriteLine("this is a debug message");
7
8
     class Solution {
             public int solution(int N) {
9
10
                     bool a = false;
                      int len = 0, max = 0;
11
12
                      for (uint i = 1; i <= N; i <<= 1) {
                              if ((i & N) != 0) {
13
                                      if (a) {
14
15
                                              if (len > m
16
17
                                              len = 0;
18
                                      a = true;
19
20
                              }
                              else if (a)
21
22
                                      ++len;
23
24
                      return max;
25
             }
26
     }
```

Analysis summary

The solution obtained perfect score.

Analysis

expand all	Example tests	
example1 example test n=1	✓ OK 041=10000010001_2	
example 2 example test n=1	✓ OK 5=1111_2	
example 3 example test n=3		
expand all	Correctness tests	
extremes n=1, n=5=101_2 a n=2147483647=2		
trailing_zeroes	s √ OK =328=101001000_2	
<pre>power_of_2 n=5=101_2, n=16 n=1024=2**10</pre>	✓ OK =2**4 and	
simple1 n=9=1001_2 and	✓ OK n=11=1011_2	
► simple2 n=19=10011 and	√ OK n=42=101010_2	

Test results - Codility

16211	esults - Codility	
•	simple3 n=1162=10010001010_2 and n=5=101_2	√ OK
•	medium1 n=51712=110010100000000_2 and n=20=10100_2	√ OK
•	medium2 n=561892=10001001001011100100_2 and n=9=1001_2	√ OK
•	medium3 n=66561=1000001000000001_2	√ OK
•	large1 n=6291457=1100000000000000000000000000000000000	√ OK
•	large2 n=74901729=10001110110111010001 1100001	√ OK
•	large3 n=805306373=110000000000000000000000000000000000	√ OK
•	large4 n=1376796946=101001000010000010 0000100010010_2	√ OK
•	large5 n=1073741825=1000000000000000000000000000000000000	√ OK
•	large6 n=1610612737=110000000000000000 000000000001_2	√ OK