

## DAY 2

### CODILITY LINKS AND SCREENSHOTS

L1:

Binary Gap - <https://app.codility.com/demo/results/trainingPAU3Z2-H35/>

L2:

Cyclic Rotation - <https://app.codility.com/demo/results/trainingS9JJSJ-8ZH/>

Odd Occurrence in Array - <https://app.codility.com/demo/results/training3GTPKM-ZXZ/>

L3:

Frog Jump - <https://app.codility.com/demo/results/trainingVZFKQ8-6MX/>

Perm Missing Element - <https://app.codility.com/demo/results/trainingC9M2JV-DGB/>

Tape Equilibrium - <https://app.codility.com/demo/results/trainingDFG7BC-GN5/>

FURY ROAD:

<https://app.codility.com/demo/results/training7UM265-628/>



CodeCheck Report: trainingPAU3Z2-H35

[Check out Codility training tasks](#)

Test Name:

- Summary
- Timeline
- AI Assistant Transcript

Tasks summary

Task	Time spent	Score
BinaryGap	10 min	100%

Total score



Tasks Details

Easy	1. <b>BinaryGap</b>	Task Score	Correctness	Performance
	Find longest sequence of zeros in binary representation of an integer.			
		100%	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.

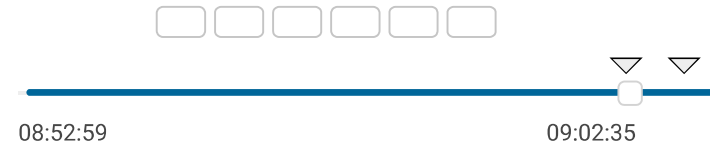
Write a function:

```
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	
Notes:	<i>not defined yet</i>	
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: 09:02:35 UTC, cpp, [show code in pop-up](#)  
final, score: 100

```
1 // you can use includes, for example:
2 // #include <algorithm>
3 #include <cmath>
4
5 // you can write to stdout for debugging purposes,
6 // cout << "this is a debug message" << endl;
7
8 int solution(int N) {
9     int numOfBits = floor(std::log2(N))+1;
10    bool ifOne = false;
11    int curGap = 0;
12    int maxGap = 0;
13
14    for(int i=0; i<numOfBits; i++){
15        if(ifOne && !(N &(1<<i))){
16            curGap++;
17        }
18        else if(N & (1<<i)){
19            if(ifOne){
20                if(curGap>maxGap){
21                    maxGap = curGap;
22                }
23                curGap = 0;
24            }
25            ifOne = true;
26        }
27    }
28    return maxGap;
29 }
```

Analysis summary

The solution obtained perfect score.

Analysis

Example tests	
▶ example1	✓ OK
example test n=1041=10000010001_2	
▶ example2	✓ OK
example test n=15=1111_2	
▶ example3	✓ OK
example test n=32=100000_2	
Correctness tests	
▶ extremes	✓ OK
n=1, n=5=101_2 and n=2147483647=2**31-1	
▶ trailing_zeroes	✓ OK
n=6=110_2 and n=328=101001000_2	
▶ power_of_2	✓ OK
n=5=101_2, n=16=2**4 and n=1024=2**10	
▶ simple1	✓ OK
n=9=1001_2 and n=11=1011_2	

▶ simple2	✓ OK
n=19=10011 and n=42=101010_2	
▶ simple3	✓ OK
n=1162=10010001010_2 and n=5=101_2	
▶ medium1	✓ OK
n=51712=110010100000000_2 and n=20=10100_2	
▶ medium2	✓ OK
n=561892=10001001001011100100_2 and n=9=1001_2	
▶ medium3	✓ OK
n=66561=10000010000000001_2	
▶ large1	✓ OK
n=6291457=11000000000000000000 01_2	
▶ large2	✓ OK
n=74901729=10001110110111010001 1100001	
▶ large3	✓ OK
n=805306373=11000000000000000000 00000000101_2	
▶ large4	✓ OK
n=1376796946=101001000010000010 0000100010010_2	
▶ large5	✓ OK
n=1073741825=10000000000000000000 000000000001_2	
▶ large6	✓ OK
n=1610612737=11000000000000000000 000000000001_2	



CodeCheck Report: trainingS9JJSJ-8ZH

Test Name:

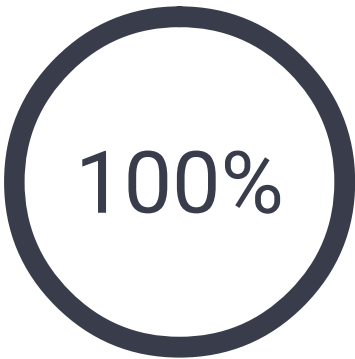
[Check out Codility training tasks](#)

Summary    Timeline    AI Assistant Transcript

Tasks summary

Task	Time spent	Score
CyclicRotation C++	11 min	100%

Total score



Tasks Details

Easy	1. <b>CyclicRotation</b>	Task Score	Correctness	Performance
	Rotate an array to the right by a given number of steps.	100%	100%	Not assessed

Task description

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:

```
vector<int> solution(vector<int> &A, int K);
```

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
```

Solution

Programming language used:	C++
Total time used:	11 minutes
Effective time used:	11 minutes
Notes:	not defined yet

Task timeline



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

```
[3, 8, 9, 7, 6] -> [6, 3, 8, 9, 7]
[6, 3, 8, 9, 7] -> [7, 6, 3, 8, 9]
[7, 6, 3, 8, 9] -> [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

Code: 09:25:28 UTC, cpp, [show code in pop-up](#)  
final, score: 100

```
1 // you can use includes, for example:
2 // #include <algorithm>
3 #include <vector>
4 // you can write to stdout for debugging purposes,
5 // cout << "this is a debug message" << endl;
6
7 vector<int> solution(vector<int> &A, int K) {
8     int n = A.size();
9     vector<int> result(n,0);
10
11     if(!n){
12         return result;
13     }
14
15     int startFrom = 0;
16     if(K%n){
17         startFrom = n-K%n;
18     }
19
20     for(int i = 0; i<n; i++){
21         result[i] = A[startFrom];
22         startFrom = ((startFrom+1)%n);
23     }
24
25     return result;
26 }
```

Analysis summary

The solution obtained perfect score.

Analysis

Example tests	
▶ example	✓ OK
first example test	
▶ example2	✓ OK
second example test	
▶ example3	✓ OK
third example test	
Correctness tests	
▶ extreme_empty	✓ OK
empty array	
▶ single	✓ OK
one element, 0 <= K <= 5	
▶ double	✓ OK
two elements, K <= N	
▶ small1	✓ OK
small functional tests, K < N	
▶ small2	✓ OK
small functional tests, K >= N	
▶ small_random_all_rotations	✓ OK
small random sequence, all rotations, N = 15	

Test results - Codility

▶ medium_random	✓ OK
medium random sequence, N = 100	
▶ maximal	✓ OK
maximal N and K	



CodeCheck Report: training3GTPKM-ZXZ

[Check out Codility training tasks](#)

Test Name:

Summary    Timeline    AI Assistant Transcript

Tasks summary

Task	Time spent	Score
OddOccurrencesInArray C++	7 min	100%

Total score



Tasks Details

Easy	1.	Task Score	Correctness	Performance	
	<b>OddOccurrencesInArray</b> Find value that occurs in odd number of elements.				
		100%	100%	100%	

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:

```
int solution(vector<int> &A);
```

Solution

Programming language used:	C++	
Total time used:	7 minutes	
Effective time used:	7 minutes	
Notes:	not defined yet	

Task timeline





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:

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

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

Code: 09:42:54 UTC, cpp, [show code in pop-up](#)  
final, score: 100

```
1 // you can use includes, for example:
2 // #include <algorithm>
3 #include<vector>
4 #include<unordered_map>
5 // you can write to stdout for debugging purposes,
6 // cout << "this is a debug message" << endl;
7
8 int solution(vector<int> &A) {
9     unordered_map<int,int> counts;
10
11     for(int n : A){
12         counts[n]++;
13     }
14
15     for(auto const& pair : counts){
16         if(pair.second%2 != 0){
17             return pair.first;
18         }
19     }
20
21     return -1;
22 }
```

Analysis summary

The solution obtained perfect score.

Analysis

Detected time complexity: **O(N) or O(N\*log(N))**

Example tests	
▶ example1	✓ OK
example test	
Correctness tests	
▶ simple1	✓ OK
simple test n=5	
▶ simple2	✓ OK
simple test n=11	
▶ extreme_single_item	✓ OK
[42]	
▶ small1	✓ OK
small random test n=201	
▶ small2	✓ OK
small random test n=601	
Performance tests	
▶ medium1	✓ OK
medium random test n=2,001	
▶	

Test results - Codility

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: trainingVZFKQ8-6MX

Test Name:

[Check out Codility training tasks](#)

Summary    Timeline    AI Assistant Transcript

Tasks summary

Task	Time spent	Score
FrogJump C++	7 min	100%

Total score



Tasks Details

Easy	1. <b>FrogJump</b> Count minimal number of jumps from position X to Y.	Task Score 100%	Correctness 100%	Performance 100%
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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:

```
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
D = 30
```

Solution

Programming language used:	C++
Total time used:	7 minutes
Effective time used:	7 minutes
Notes:	not defined yet

Task timeline



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

- after the first jump, at position  $10 + 30 = 40$
- after the second jump, at position  $10 + 30 + 30 = 70$
- 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  $[1..1,000,000,000]$ ;
- $X \leq Y$ .

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Test results - Codility

Code: 09:56:37 UTC, cpp, [show code in pop-up](#)  
final, score: 100

```
1 // you can use includes, for example:
2 // #include <algorithm>
3 #include<cmath>
4 // you can write to stdout for debugging purposes,
5 // cout << "this is a debug message" << endl;
6
7 int solution(int X, int Y, int D) {
8     double ans,distToBeCovered;
9
10    distToBeCovered = (double)Y-(double)X;
11
12    ans = ceil(distToBeCovered / ((double)D));
13
14    return ans;
15 }
```

Analysis summary

The solution obtained perfect score.

Analysis

Detected time complexity:  **$O(1)$**

Example tests	
▶ example	✓ OK
example test	
Correctness tests	
▶ simple1	✓ OK
simple test	
▶ simple2	✓ OK
▶ extreme_position	✓ OK
no jump needed	
▶ small_extreme_jump	✓ OK
one big jump	
Performance tests	
▶ many_jump1	✓ OK
many jumps, D = 2	
▶ many_jump2	✓ OK
many jumps, D = 99	
▶ many_jump3	✓ OK
many jumps, D = 1283	
▶ big_extreme_jump	✓ OK
maximal number of jumps	
▶ small_jumps	✓ OK
many small jumps	



[Check out Codility training tasks](#)

Tasks Details

Easy	1. PermMissingElem	Task Score	Correctness	Performance
	Find the missing element in a given permutation.	100%	100%	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:

```
int solution(vector<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:

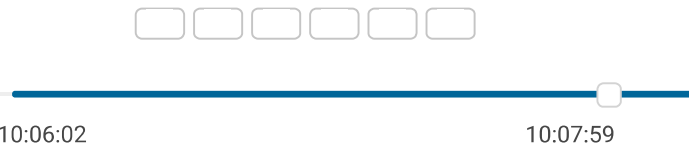
- N is an integer within the range  $[0..100,000]$ ;
- the elements of A are all distinct;
- each element of array A is an integer within the range  $[1..(N + 1)]$ .

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Solution

Programming language used:	C++
Total time used:	2 minutes ?
Effective time used:	2 minutes ?
Notes:	not defined yet

Task timeline ?



Code: 10:07:59 UTC, cpp, [show code in pop-up](#)  
final, score: 100

```
1 // you can use includes, for example:
2 // #include <algorithm>
3
4 // you can write to stdout for debugging purposes,
5 // cout << "this is a debug message" << endl;
6
7 int solution(vector<int> &A) {
8     unsigned long long int n = A.size();
9     unsigned long long int sum = 0;
10
11     for(unsigned int i = 0; i<n; i++){
12         sum+=A[i];
13     }
14
15     double result = (n+1)*(n+2)/2 - sum;
16
17     return result;
18 }
```

Analysis summary

The solution obtained perfect score.

Analysis

Detected time complexity:

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

expand all	Example tests	
▶	example example test	✓ OK
expand all	Correctness tests	
▶	empty_and_single empty list and single element	✓ OK
▶	missing_first_or_last the first or the last element is missing	✓ OK
▶	single single element	✓ OK
▶	double two elements	✓ OK
▶	simple simple test	✓ OK
expand all	Performance tests	
▶	medium1 medium test, length = ~10,000	✓ OK
▶	medium2 medium test, length = ~10,000	✓ OK
▶	large_range range sequence, length = ~100,000	✓ OK
▶	large1 large test, length = ~100,000	✓ OK
▶	large2 large test, length = ~100,000	✓ OK



CodeCheck Report: trainingDFG7BC-GN5

[Check out Codility training tasks](#)

Test Name:

Summary    Timeline    AI Assistant Transcript

Tasks summary

Task	Time spent	Score
TapeEquilibrium C++	7 min	100%

Total score



Tasks Details

Easy	<b>1. TapeEquilibrium</b> Minimize the value $  (A[0] + \dots + A[P-1]) - (A[P] + \dots + A[N-1])  $ .	Task Score	Correctness	Performance
		100%	100%	100%

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 non-empty parts:  $A[0], A[1], \dots, A[P - 1]$  and  $A[P], A[P + 1], \dots, A[N - 1]$ .

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

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:

Solution

Programming language used:	C++
Total time used:	7 minutes
Effective time used:	7 minutes
Notes:	not defined yet

Task timeline



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

Write a function:

```
int solution(vector<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

Code: 10:21:25 UTC, cpp, [show code in pop-up](#)  
final, score: 100

```
1 // you can use includes, for example:
2 // #include <algorithm>
3 #include<cmath>
4 #include<limits.h>
5 // you can write to stdout for debugging purposes,
6 // cout << "this is a debug message" << endl;
7
8 int solution(vector<int> &A) {
9     int totalSum = 0, leftSum = 0, rightSum = 0;
10    int n = A.size();
11    int minDiff = INT_MAX;
12    for(int a : A){
13        totalSum += a;
14    }
15    for(int i=0; i<(n-1); i++){
16        leftSum += A[i];
17        rightSum = totalSum - leftSum;
18
19        int diff = abs(leftSum - rightSum);
20        if(diff < minDiff){
21            minDiff = diff;
22        }
23    }
24
25    return minDiff;
26 }
```

Analysis summary

The solution obtained perfect score.

Analysis

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

expand all	Example tests	
▶	example	✓ OK
	example test	
expand all	Correctness tests	
▶	double	✓ OK
	two elements	
▶	simple_positive	✓ OK
	simple test with positive numbers, length = 5	
▶	simple_negative	✓ OK
	simple test with negative numbers, length = 5	
▶	simple_boundary	✓ OK
	only one element on one of the sides	
▶	small_random	✓ OK
	random small, length = 100	
▶	small_range	✓ OK
	range sequence, length = ~1,000	



Test results - Codility

▶ small	✓ OK
small elements	
expand all	Performance tests
▶ medium_random1	✓ OK
random medium, numbers from 0 to 100, length = ~10,000	
▶ medium_random2	✓ OK
random medium, numbers from -1,000 to 50, length = ~10,000	
▶ large_ones	✓ OK
large sequence, numbers from -1 to 1, length = ~100,000	
▶ large_random	✓ OK
random large, length = ~100,000	
▶ large_sequence	✓ OK
large sequence, length = ~100,000	
▶ large_extreme	✓ OK
large test with maximal and minimal values, length = ~100,000	



CodeCheck Report: training7UM265-628

[Check out Codility training tasks](#)

Test Name:

- Summary
- Timeline
- AI Assistant Transcript

Tasks summary

Task	Time spent	Score
ScooterRoad C++	5 min	100%

Total score



Tasks Details

	1. ScooterRoad				
Medium	Calculate the minimum time that you need to get through the diversified road to your work.	Task Score	Correctness	Performance	
		100%	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.

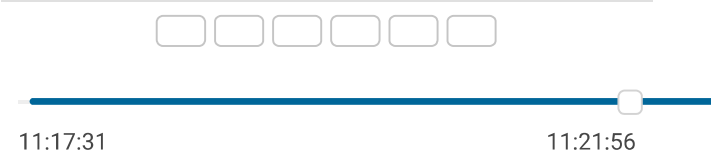
When you go on foot, you need 20 minutes to pass through an asphalt segment and 30 minutes through a sand segment. You also have an electric scooter, which needs 5 minutes to pass through an asphalt segment and 40 minutes through a sand segment.

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?

Solution

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

Task timeline



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.

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 'A'.

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Code: 11:21:56 UTC, cpp, [show code in pop-up](#)  
final, score: 100

```
1 // you can use includes, for example:
2 // #include <algorithm>
3 #include <vector>
4
5 // you can write to stdout for debugging purposes,
6 // cout << "this is a debug message" << endl;
7
8 int cost(bool scooter, bool sand){
9     vector<vector<int>> costs = {{20,30}, {5,40}};
10    return costs[scooter][sand];
11 }
12
13 int solution(string &R) {
14     int n = R.size();
15     vector<int> foot(n+1, 0);
16
17     for(int i=n-1; i>=0; i--){
18         foot[i] = foot[i+1] + cost(false, R[i] == '
19     }
20
21     int ans = foot[0];
22     int c = 0;
23     for(int i = 0; i<n; i++){
24         c+=cost(true, R[i] == 'S');
25         ans = min(ans, c+ foot[i+1]);
26     }
27
28     return ans;
29 }
```

Analysis summary

The solution obtained perfect score.

Analysis

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

Example tests	
▶ example1	✓ OK
First example test.	
▶ example2	✓ OK
Second example test.	
▶ example3	✓ OK
Third example test.	
Correctness tests	
▶ very_short_road	✓ OK
N = 1.	
▶ short_road	✓ OK
N <= 3.	
▶ only_scooter	✓ OK
Only scooter is used.	
▶	

Test results - Codility

only_walking		✓ OK
Scooter is not used at all.		
▶	all_asphalt_first	✓ OK
Road can be described by "AA...ASS...S". N <= 200.		
▶	small_random_change_point	✓ OK
Getting off the scooter at a random position. N <= 200.		
expand all		Performance tests
▶	medium_random	✓ OK
Medium random tests. N <= 10,000.		
▶	medium_random_change_point	✓ OK
Medium tests, getting off the scooter at a random position. N <= 10,000.		
▶	big_random	✓ OK
Big random tests.		
▶	big_random_change_point	✓ OK
Big tests, getting off the scooter at a random position.		
▶	big_corner_cases	✓ OK
Big tests with corner cases.		