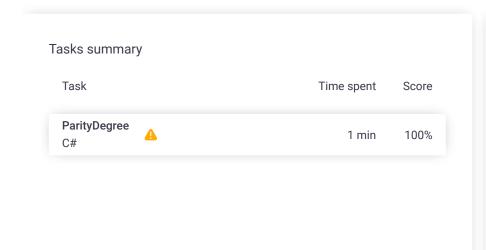
# Codility\_

# CodeCheck Report: trainingYCQH9J-3DA

Test Name:

Check out Codility training tasks

Summary Timeline 🞃 Al Assistant Transcript





## **Tasks Details**

1. ParityDegree Task Score Correctness Performance
Find the highest power of 2
that divides N. 100% Not assessed

## Task description

A positive integer N is given. The goal is to find the highest power of 2 that divides N. In other words, we have to find the maximum K for which N modulo 2<sup>k</sup> is 0.

For example, given integer N = 24 the answer is 3, because  $2^3 = 8$  is the highest power of 2 that divides N.

#### Write a function:

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

that, given a positive integer N, returns the highest power of 2 that divides N.

For example, given integer N = 24, the function should return 3, as explained above.

#### Assume that:

• N is an integer within the range [1..1,000,000,000].

#### Solution

Programming language used:	C#	
Total time used:	1 minutes	?
Effective time used:	1 minutes	3
Notes:	not defined yet	
ask timeline		3

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

Copyright 2009–2024 by Codility Limited. All Rights Reserved. Unauthorized copying, publication or disclosure prohibited.

```
Code: 00:43:48 UTC, cs, final,
                                   show code in pop-up
score: 100
     using System;
 2
     // you can also use other imports, for example:
3
     // using System.Collections.Generic;
4
5
     // you can write to stdout for debugging purposes,
     // Console.WriteLine("this is a debug message");
6
7
    class Solution {
8
9
         public int solution(int N) {
10
             // Implement your solution here
11
             var power = 0;
12
             int modulo = 0;
13
             while(modulo == 0)
14
15
16
                 power++;
17
                 modulo = N % (int)Math.Pow(2, power);
18
             }
19
20
             return --power;
21
         }
22
     }
```

# Analysis summary

The solution obtained perfect score.

# Analysis

expand	all	Example tests	
	cample ample test	<b>√</b>	OK
expand	all	Correctness tests	
	ktreme_small = {1, 2}	✓	OK
	mall_functional ry small numbers	✓	OK
, .	mall nall numbers	✓	OK
	edium edium numbers	✓	OK
	edium_powers edium powers	✓	OK
	rge g numbers	✓	OK
	rge_powers ge powers 2^27, 2^	•	ОК
	ktreme_maxima = 10^9	ıl 🗸	OK