Codility_

Candidate Report: trainingC7B6H8-FYS

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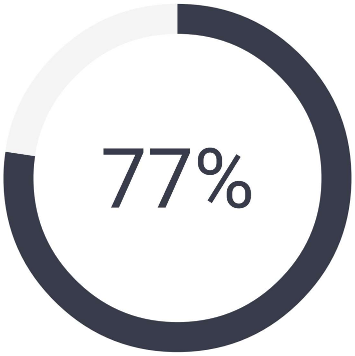
Test Name:

Summary Timeline Feedback

Tasks summary

Task	Time spent	Score
MaxProductOfThree C#	1 min	77%

Total score



Tasks Details

Easy

1. MaxProductOfThree

Maximize A[P] * A[Q] * A[R] for any triplet (P, Q, R).

Task Score	Correctness	Performance
77%	100%	60%

Task description

A non-empty array A consisting of N integers is given. The *product* of triplet (P, Q, R) equates to A[P] * A[Q] * A[R] (0 ≤ P < Q < R < N).

For example, array A such that:

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

contains the following example triplets:

- (0, 1, 2), product is −3 * 1 * 2 = −6
- (1, 2, 4), product is 1 * 2 * 5 = 10
- (2, 4, 5), product is 2 * 5 * 6 = 60

Your goal is to find the maximal product of any triplet.

Write a function:

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

that, given a non-empty array A, returns the value of the maximal product of any triplet.

Solution

Programming language used:	C#
Total time used:	1 minutes
Effective time used:	1 minutes
Notes:	*not defined yet*

Task timeline

21:23:53 21:24:37

Code: 21:24:37 UTC, cs, final, score: 77

show code in pop-up

For example, given array A such that:

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

the function should return 60, as the product of triplet (2, 4, 5) is maximal.

Write an **efficient** algorithm for the following assumptions:

- N is an integer within the range [3..100,000];
- each element of array A is an integer within the range [−1,000..1,000].

```
using System;
using System.Collections.Generic;
using System.Text;
using System.Linq;
// you can also use other imports, for example:
// using System.Collections.Generic;

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

class Solution {
           public int solution(int[] A)
        {
            var a = A.ToList().Where(x=>x>=0).OrderByDescen
            var b = A.ToList().Where(x=>x<0).OrderByDescend
            List<int> list2NegAnd1Positive = new List<int>(
            List<int> list3Positive = new List<int>();
            List<int> list3Negative = new List<int>();
            List<int> Maxes = new List<int>();
            if (a.Count() >= 3)
            {
                list3Positive = a.Take(3).ToList();
            }
            if (b.Count() >= 2)
            {
                list2NegAnd1Positive = b.Take(2).ToList();
                if (a.Count() >= 1)
                {
                    list2NegAnd1Positive.Add(a.First());
                }else
                {

                }
            }
            if (b.Count() >= 3)
            {
                list3Negative = b.Take(3).ToList();
            }

            if (list3Positive.Count >= 3)
                try
                {
                    Maxes.Add(list3Positive[0] * list3Posit
                }catch(Exception)
                { }
            if (list2NegAnd1Positive.Count >= 3)
                try
                {
                    Maxes.Add(list2NegAnd1Positive[0] * lis
                }catch(Exception)
                { }
            if (list3Negative.Count >= 3)
                try
                {
                    Maxes.Add(list3Negative[0] * list3Negat
                }
                catch (Exception)
                { }
            return Maxes.Max();




        }
}
```

Analysis summary

The following issues have been detected: wrong answers.

Analysis ?

expand all	**Example tests**
▶ example example test	✓ OK
expand all	**Correctness tests**
▶ one_triple three elements	✓ OK
▶ simple1 simple tests	✓ OK
▶ simple2 simple tests	✓ OK
▶ small_random random small, length = 100	✓ OK
expand all	**Performance tests**
▼ medium_range -1000, -999, ... 1000, length = ~1,000	✗ WRONG ANSWER got 997002000 expected 999000000
1. 0.032 s **WRONG ANSWER**, got 997002000 expected 999000000	
▶ medium_random random medium, length = ~10,000	✓ OK
▶ large_random random large, length = ~100,000	✓ OK
▼ large_range 2000 * (-10..10) + [-1000, 500, -1]	✗ WRONG ANSWER got 50000 expected 5000000
1. 0.116 s **WRONG ANSWER**, got 50000 expected 5000000	
▶ extreme_large (-2, .., -2, 1, .., 1) and (MAX_INT)..(MAX_INT), length = ~100,000	✓ OK

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