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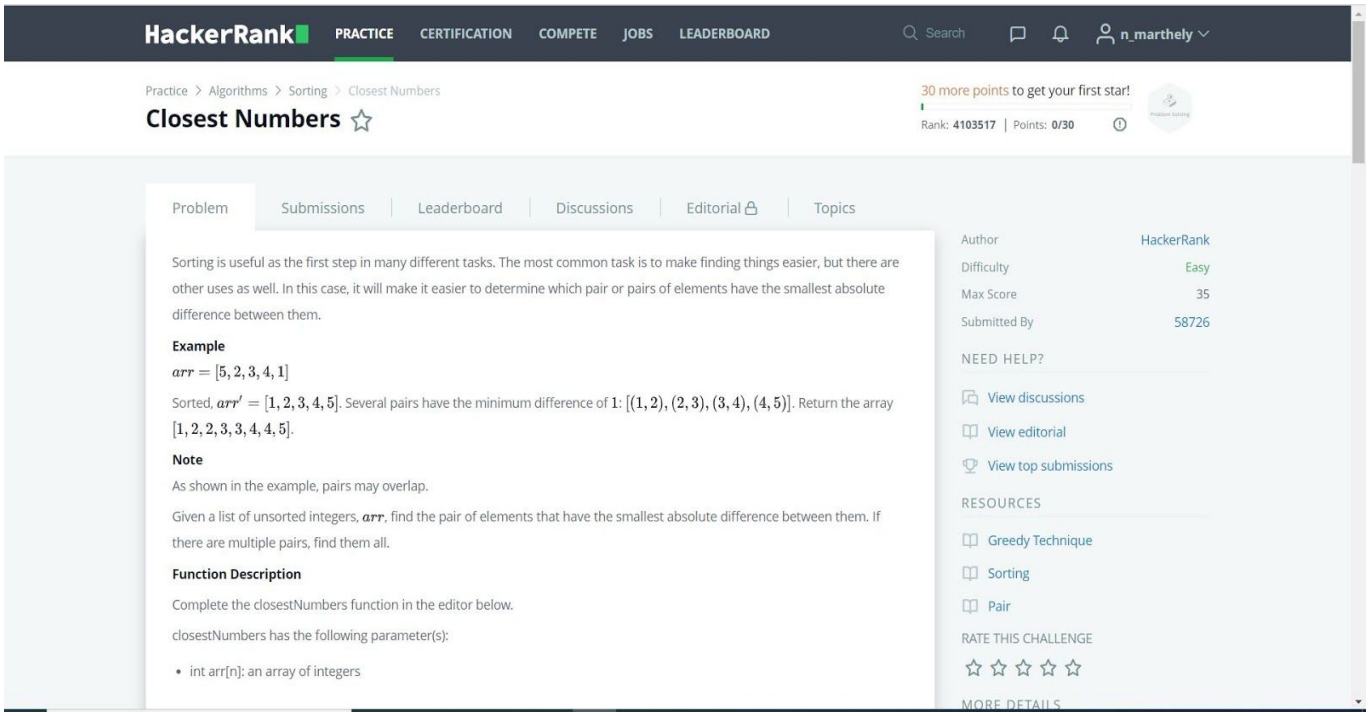

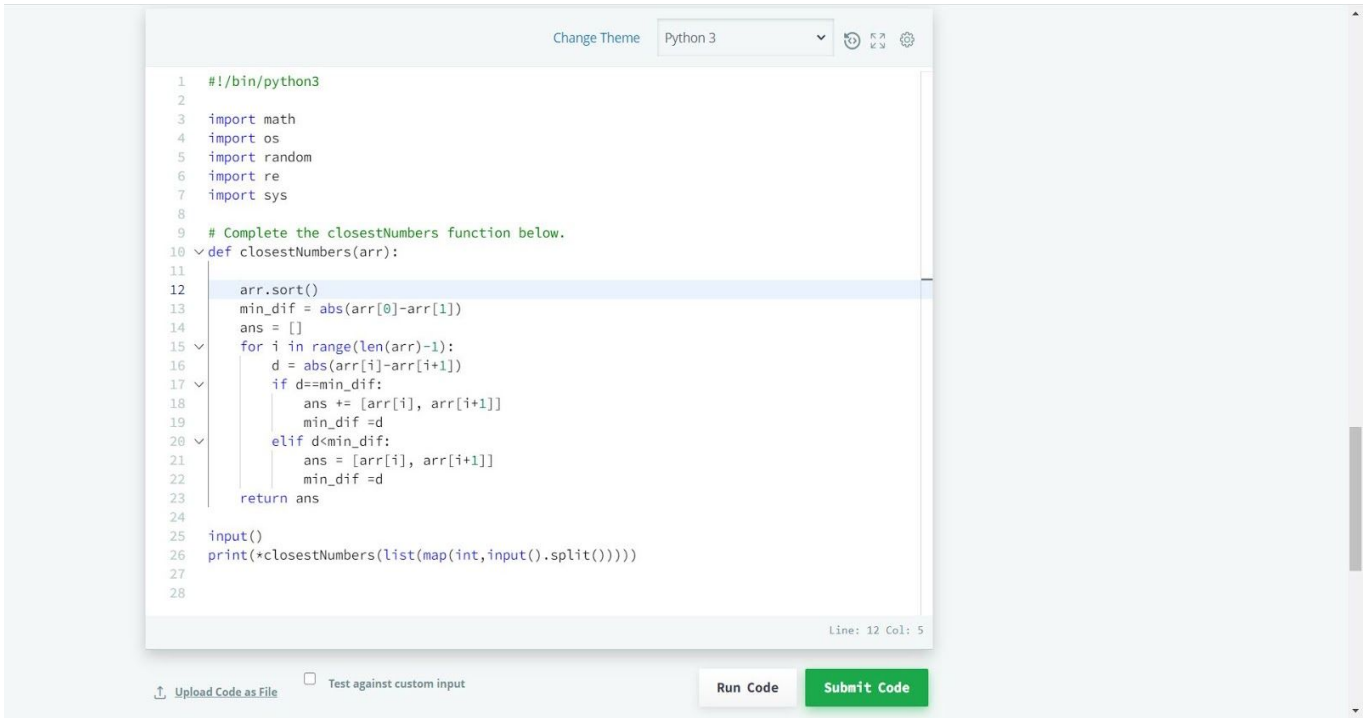

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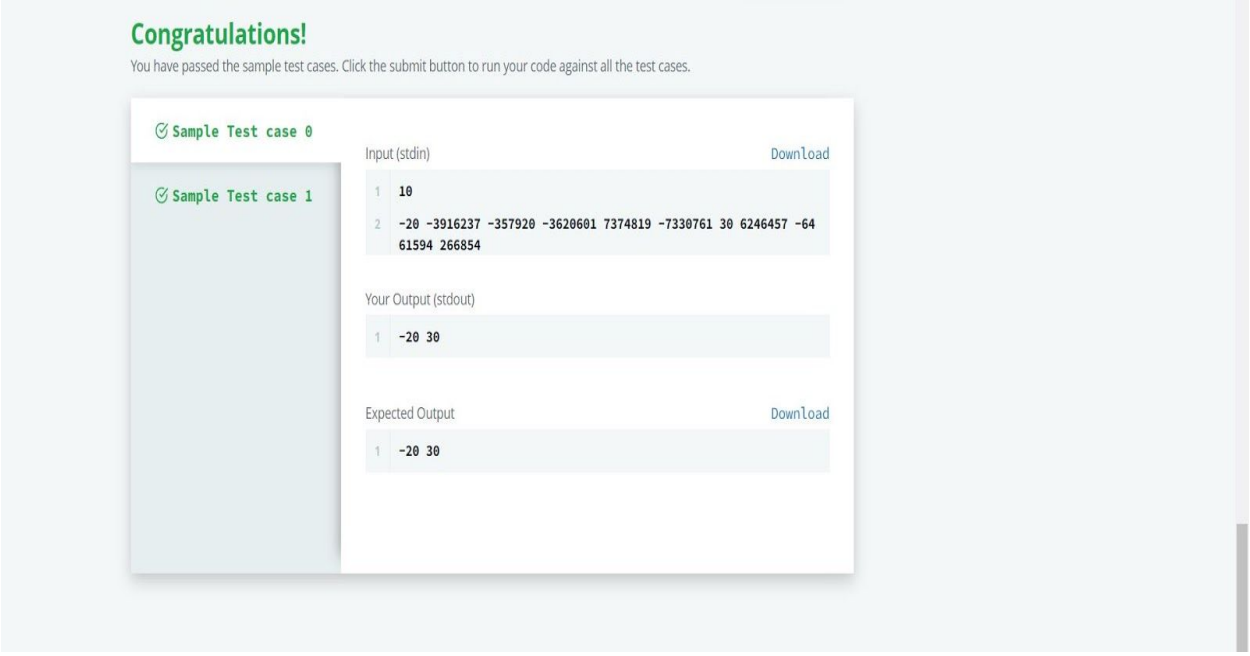

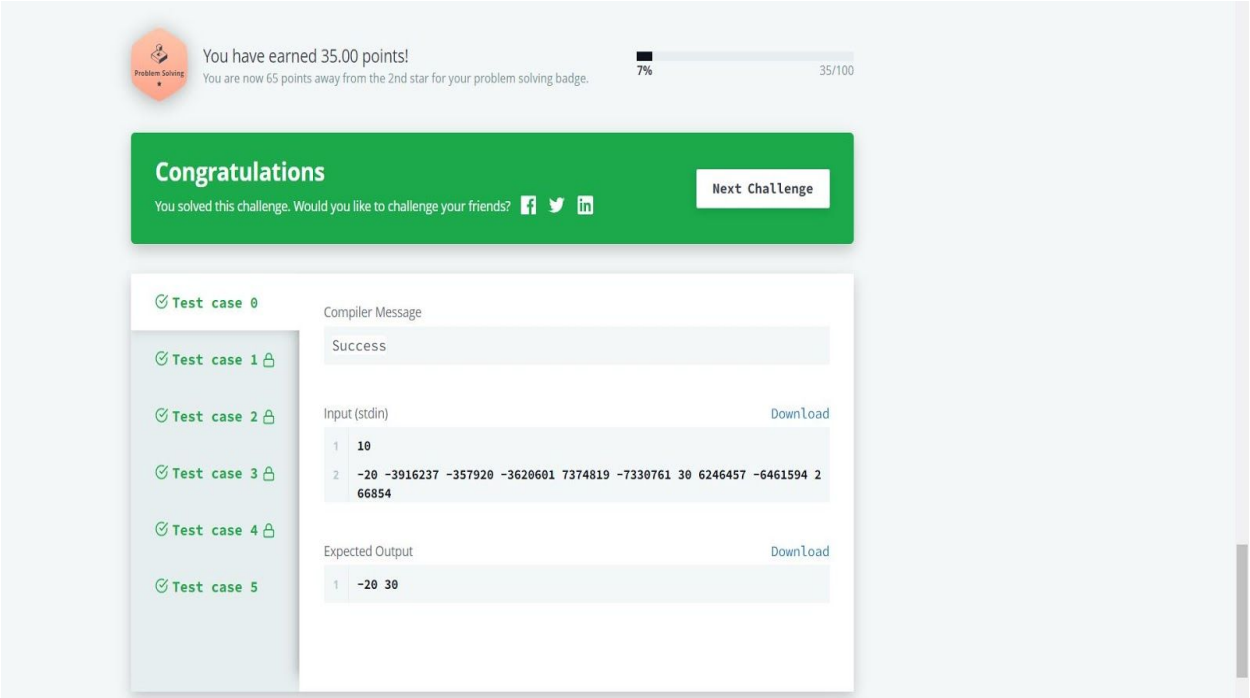

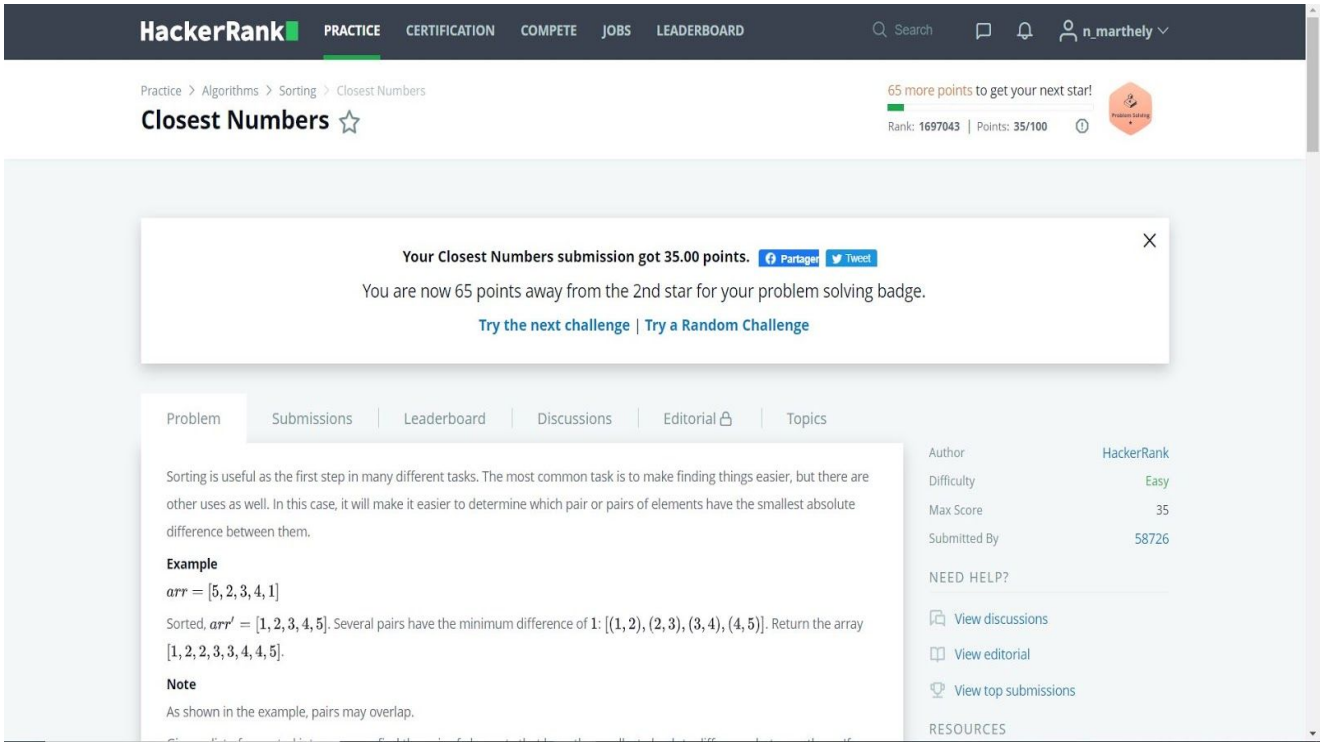
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Practice > Algorithms > Sorting > Closest Numbers
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Sorting is useful as the first step in many different tasks. The most common task is to make finding things easier, but there are other uses as well. In this case, it will make it easier to determine which pair or pairs of elements have the smallest absolute difference between them.
Example
$arr = [5, 2, 3, 4, 1]$
Sorted, $arr' = [1, 2, 3, 4, 5]$. Several pairs have the minimum difference of 1: $[(1, 2), (2, 3), (3, 4), (4, 5)]$. Return the array $[1, 2, 2, 3, 3, 4, 4, 5]$.
Note
As shown in the example, pairs may overlap.
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Difficulty
Easy
Max Score
35
Submitted By
58726
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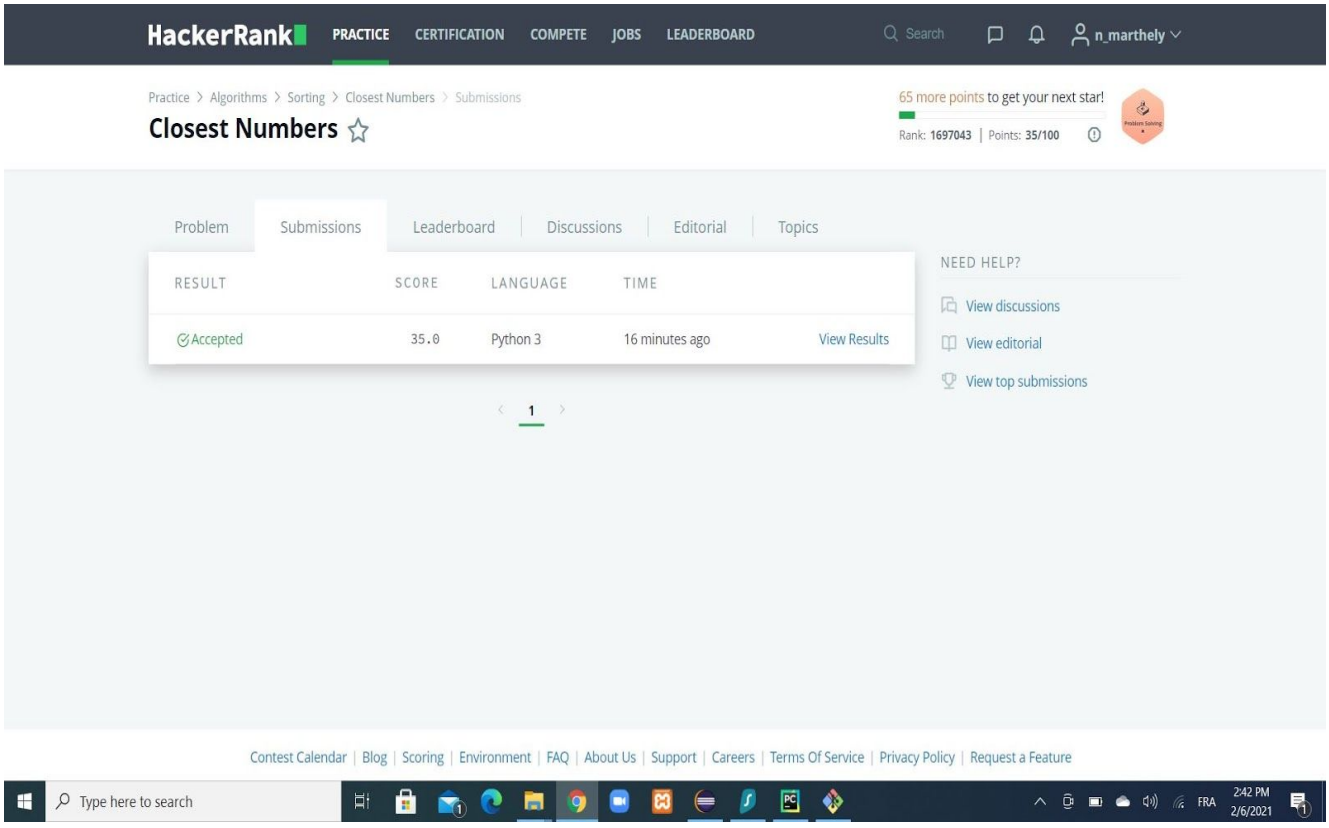
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My code:

```
#!/bin/python3

import math
import os
import random
import re
import sys

# Complete the closestNumbers function below.
def closestNumbers(arr):

    arr.sort()
    min_dif = abs(arr[0]-arr[1])
    ans = []
    for i in range(len(arr)-1):
        d = abs(arr[i]-arr[i+1])
        if d==min_dif:
            ans += [arr[i], arr[i+1]]
            min_dif =d
        elif d<min_dif:
            ans = [arr[i], arr[i+1]]
            min_dif =d
    return ans

input()
print(*closestNumbers(list(map(int,input().split()))))
```