

Username: murairicedric

The image shows a screenshot of the HackerRank website interface. At the top, the user's profile 'murairicedric' is visible. The page title is 'Closest Numbers'. A notification banner states: 'Your Closest Numbers submission got 35.00 points. You are now 38.09 points away from the 3rd star for your problem solving badge.' Below this, the problem description is shown, including an example: `arr = [5, 2, 3, 4, 1]` and the sorted array `arr' = [1, 2, 3, 4, 5]`. The problem asks to return the array of pairs with the minimum difference. On the right, a metadata box shows: Author: HackerRank, Difficulty: Easy, Max Score: 35, Submitted By: 58683. Below the problem description, a code editor is open with a Python 3 solution. The code is as follows:

```
1 #!/bin/python3
2
3 import math
4 import os
5 import random
6 import re
7 import sys
8
9 # Complete the closestNumbers function below.
10 def closestNumbers(arr):
11     arr.sort()
12     checked = dict()
13
14     for i in range(len(arr) - 1):
15         diff = abs(arr[i+1] - arr[i])
16         if diff in checked:
17             checked[diff].append(arr[i])
18             checked[diff].append(arr[i+1])
19         else:
20             checked[diff] = [arr[i], arr[i+1]]
21
22     return checked[min(checked.keys())]
23
24 if __name__ == '__main__':
```

At the bottom of the code editor, there are buttons for 'Run Code' and 'Submit Code'.

Applications Sun, Feb 7 07:42 86%

hackerrank.com/challenges/closest-numbers/problem

You have earned 35.00 points!  
You are now 38.09 points away from the 3rd star for your problem solving badge.

62% 161.91/200

### Congratulations

You solved this challenge. Would you like to challenge your friends? [f](#) [t](#) [in](#) [Next Challenge](#)

Test case 0  
Test case 1  
Test case 2  
Test case 3  
Test case 4  
Test case 5

Compiler Message  
Success

Input (stdin) [Download](#)

```
1 10
2 -20 -3916237 -357920 -3620601 7374819 -7330761 30 6246457 -6461594
266854
```

Expected Output [Download](#)

```
1 -20 30
```

```
def closestNumbers(arr):  
    arr.sort()  
    checked = dict()  
  
    for i in range(len(arr) - 1):  
        diff = abs(arr[i+1] - arr[i])  
        if diff in checked:  
            checked[diff].append(arr[i])  
            checked[diff].append(arr[i+1])  
        else:  
            checked[diff] = [arr[i], arr[i+1]]  
  
    return checked[min(checked.keys())]
```