The absolute difference is the positive difference between two values a and b, is written |a-b| or |b-a| and they are equal. If a=3 and b=2,

Function Description

Complete the minimumAbsoluteDifference function in the editor below. It should return an integer that represents the minimum absolute difference between any pair of elements.

minimumAbsoluteDifference has the following parameter(s):

• int arr[n]: an array of integers

Returns

• int: the minimum absolute difference found

Input Format

The first line contains a single integer n, the size of arr. The second line contains n space-separated integers, arr[i].

Constraints

•
$$2 \le n \le 10^5$$

•
$$-10^9 \le arr[i] \le 10^9$$

```
#!/bin/python3
      import math
      import os
     import random
     import re
     import sys
        Complete the 'minimumAbsoluteDifference' function below.
     # The function is expected to return an INTEGER.
     # The function accepts INTEGER_ARRAY arr as parameter.
 14
 16 ∨ def minimumAbsoluteDifference(arr):
         result = float('inf')
         arr.sort()
 19
         for idx in range(1, len(arr)):
 20 🗸
             diff = abs(arr[idx]-arr[idx-1])
             if diff < result:</pre>
 22 🗸
                 result = diff
 24
         return result
 47
 48
                                                                                                               Line: 26 Col: 1
                                                                                                                Submit Code
                                                                                                   Run Code
 Test against custom input
 Congratulations
                                                                                                           Next Challenge
 You solved this challenge. Would you like to challenge your friends? f in
⊘ Test case 0
                      Compiler Message
                       Success
Input (stdin)
                                                                                                                  Download
1 3
2 3 -7 0
```