Description

△ Solution

□ Discuss (999+)

Submissions

i C#

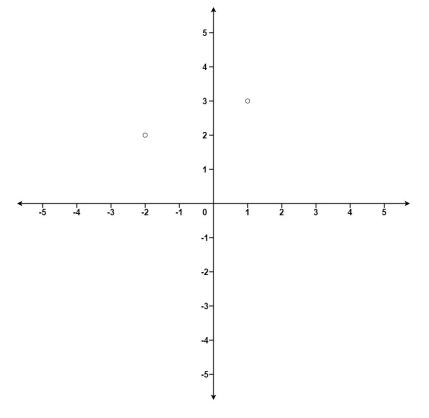
973. K Closest Points to Origin

Given an array of points where points[i] = $[x_i, y_i]$ represents a point on the **X-Y** plane and an integer k, return the k closest points to the origin (0, 0).

The distance between two points on the **X-Y** plane is the Euclidean distance (i.e., $\sqrt{(x_1 - x_2)^2 + (y_1 - y_2)^2}$).

You may return the answer in **any order**. The answer is **guaranteed** to be **unique** (except for the order that it is in).

Example 1:



Input: points = [[1,3],[-2,2]], k = 1

Output: [[-2,2]]

Explanation:

The distance between (1, 3) and the origin is sqrt(10).

The distance between (-2, 2) and the origin is sqrt(8).

Since sqrt(8) < sqrt(10), (-2, 2) is closer to the origin.

We only want the closest k = 1 naints from the enising so the

≡ Problems

➢ Pick One

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Next >

Console -

▶ Run Code ^

Use Example Testcase

Subm

```
{}
  3
                 SortedDictionar
        List<(int, int)>> dict
        SortedDictionary<double
        List<(int, int)>>();
  4
                 var x1 = 0;
  5
                 var y1 = 0;
  6
                 foreach(var poi
        points)
  7 ▼
  8
                     var x2 = po
  9
                     var y2 = po
 10
                     var dist =
        Math.Sqrt((double)(Math
        x2, 2) + Math.Pow(y1-y2
 11
         if(dict.ContainsKey(di
 12 ▼
 13
         dict[dist].Add((x2, y2
 14
 15 ▼
                     else{
 16
                          dict.Ad
        new List<(int, int)>{(x
 17
 18
                 }
 19
 20
                 var result = ne
        [];
 21
                 var j = 0;
 22
                 foreach(var ite
        dict)
 23 🔻
 24
                     foreach(var
        item.Value)
 25 ▼
 26
                          result[
        int[2]{ l.Item1, l.Item
         Run Code Result
Testcase
 Accepted
               Runtime: 132 ms
                [[1,3],[-2,2]]
 Your input
 Output
                 [[-2,2]]
 Expected
                 [[-2,2]]
```