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K Closest Points to Origin

Try to solve the K Closest Points to Origin problem.



Statement

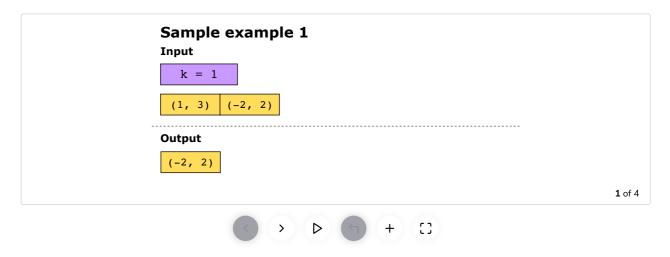
Given a list of points on a plane, where the plane is a 2-D array with (x, y) coordinates, find the k closest points to the origin (0, 0).

Note: Here, the distance between two points on a plane is the Euclidean distance: $\sqrt{x^2+y^2}$

Constraints:

- $1 \leq \mathsf{k} \leq \mathsf{points.length} \leq 10^4$
- $-10^4 < x[i], y[i] < 10^4$

Examples



Understand the problem

Let's take a moment to make sure you've correctly understood the problem. The quiz below helps you check if you're solving the correct problem:

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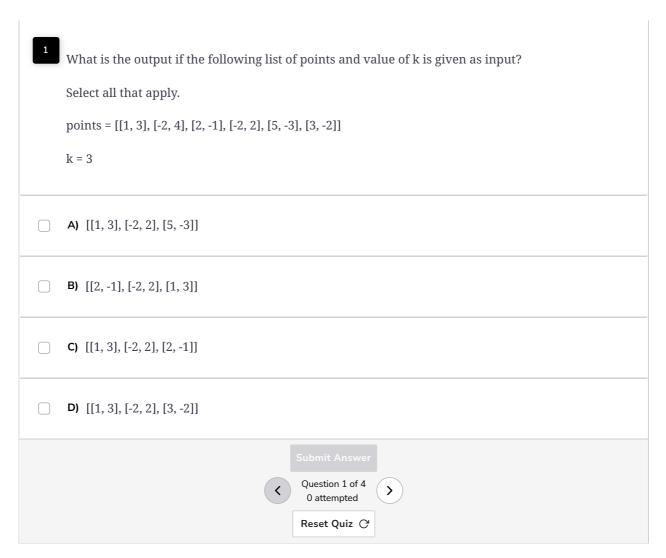
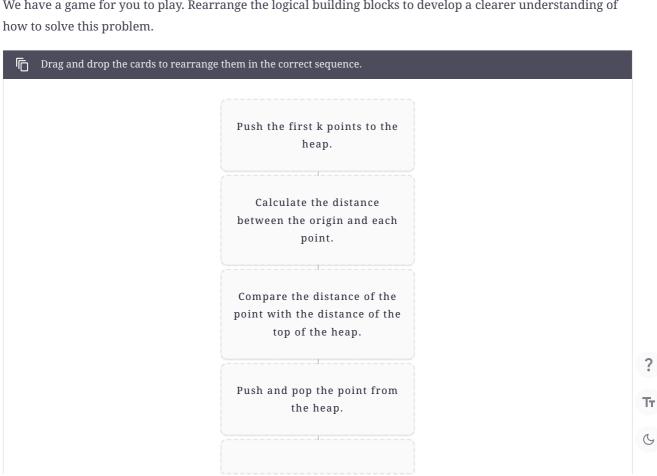


Figure it out!

We have a game for you to play. Rearrange the logical building blocks to develop a clearer understanding of



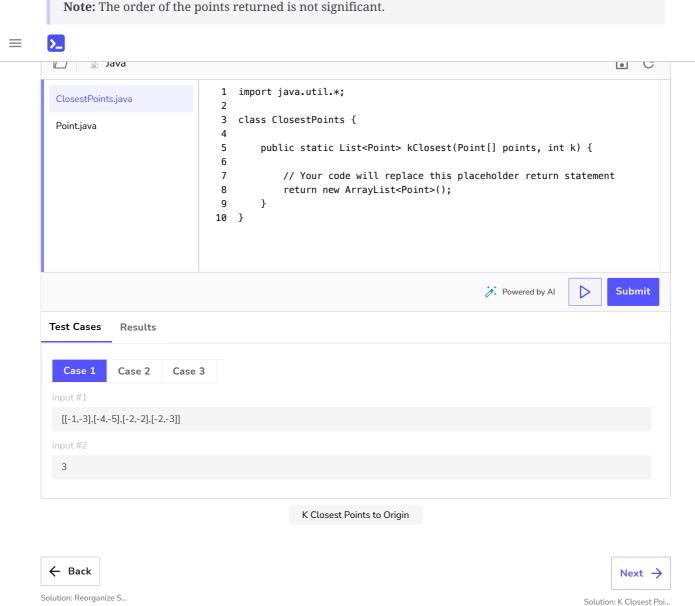


Try it yourself

Implement your solution in ClosestPoints.java in the following coding playground.

A Point class has two data members, x and y coordinates. You may add members or methods to it to support your solution.

Note: The order of the points returned is not significant.



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✓ Mark as Completed