

```

1  class Solution {
2  public:
3      vector<vector<int>> kClosest(vector<vector<int>>& points, int k) {
4          priority_queue<pair<double, vector<int>>> maxHeap;
5
6          for (const auto& point : points) {
7              double distance = sqrt(point[0] * point[0] + point[1] * point[1]);
8
9              maxHeap.push({distance, point});
10             if (maxHeap.size() > k) {
11                 maxHeap.pop();
12             }
13         }
14
15         vector<vector<int>> result;
16         while (!maxHeap.empty()) {
17             result.push_back(maxHeap.top().second);
18             maxHeap.pop();
19         }
20
21         sort(result.begin(), result.end(),
22             [](const vector<int>& a, const vector<int>& b) {
23                 double distA = sqrt(a[0] * a[0] + a[1] * a[1]);
24                 double distB = sqrt(b[0] * b[0] + b[1] * b[1]);
25                 return distA < distB;
26             });
27
28         return result;
29     }
30 };

```