

ACM/ICPC: Competitive Programming Notebook

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Geometry

Points and Lines

Given a set of 2D points returns the distance of the closest pair of points.

```
1  const double EPS { 1e-9 };  
   bool equals(double a, double b)  
3  {  
       return fabs(a - b) < EPS;  
5  }
```

Listing 1: Line Sweep Closest Pair Algorithm

Given a set of 2D points with integer coordinates, sort them in clockwise order using integers only.