Definition of Maximal Points in a Plane

A point \( p_i = (x_i, y_i) \) in the x-y plane is maximal if there is no point \( p_j = (x_j, y_j) \) such that \( x_j > x_i \) and \( y_j > y_i \).

Points in the (x,y) plane, which are maximal points?

```
 1  2  3  4  5  6  7  8
```

Algorithm

- ?
Algorithms? Analysis

• ?

Algorithms? Data Structures?

• ?

Take Advantage of Research Opportunities

• [www.cra-w.org/undergraduate](http://www.cra-w.org/undergraduate)
  – Several research programs
    • Summer experience at another university
    • Academic year and summer at your institution

• Students have websites about their experience

Other Research Opportunities

• NSF REU programs
  – Summer programs at other institutions
  – Deadlines in February or early March

• The complete slides for this talk will be put on the Grace Hopper 2010 site and also here:
  [www.cs.duke.edu/~rodger](http://www.cs.duke.edu/~rodger) under talks