

# Geometric Range Search

Range Query

- Planar Range Query

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❖ Let  $P = \{ p_1, \dots, p_n \}$  be a planar set

❖ Given  $R = [x_1, x_2] \times [y_1, y_2]$

- **Counting** :  $|P \cap R| = ?$

- **Reporting** :  $P \cap R = ?$

❖ Binary search

doesn't help this kind of query

❖ Let's go back to 1D case ...

salary

