

What is the asymptotic time complexity for brute force algorithm of comparing all pairs of points?

Compute distance and compare with best so far

Do this once for each pair of points.

If you've taken CSE 240 or equivalent

I hope you can quickly say

$$C(n, 2) = \binom{n}{2} = n(n-1)/2$$

$$= n^2/2 - n/2$$

$$\leq C \cdot n^2$$

Otherwise we can compute # of pairs of points as:

