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CS325 – Assignment1

**BRUTE FORCE**

**Pseudo-Code**

for i=0 to coordinates size

coord1 = coordiantes[i]

for k=i to coordinates size

coord2 = coordiantes[k]

dist = distanceFormaula(coord1, coord2)

if dist < smallestDistance

smallestDistance = dist

found.clear

if dist == smallestDist

found.add(coord1, coord2)

return found

**Asymptotic Analysis of Runtime**

Within the brute force there are two for loops and then many simple operations. The for loops are equal to O(n) each and each other operation is O(c). The complete run time of the Brute Force program is O().

**Plot the Runtime**