Pseudocode for Project 1

Open input file

Make a variable to hold a line from the file

Create a one-dimensional string array to hold the names of the pilots with size 20

Create a three-dimensional double array to store pilot, number of coordinates, and x or y coordinate with dimensions 20x16x2

Create a while loop to check if a next line exists in the file

Equate the variable to the line

Store the name into the one-dimensional string array

Create a while loop to check if there’s more coordinates to read

Create a temp string variable to hold the x,y coordinate

Split x, y using substring manipulation

Store the x coordinate in first index of 3rd dimension

Store the y coordinate in second index of 3rd dimension

Create a for loop i = 0 that repeats based on the length of the 1d pilot array

Create a variable to store the area

Create a for loop using j = 0 that repeats based on the amt of coordinates pilot minus

two

Use the equals add to add the multiplication of the jth + jth + 1 index of the 2nd dimension and index 0 of the third dimension and index 1 of jth + jth+1.

Multiply the area by ½

Print statement to output file pilot\_areas.txt using i index of 1d pilot array and the area variable

Close the file