ASSIGNMENT-1

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DESIGN CHOICES:

INPUTS:

n: number of time while loop is running in my code basically its number

of input coordinates-1 (n>0)

x1: 1st x coordinate of input

y1: 1st y coordinate of input

x2: x coordinate of input

y2: y coordinate of input

zero: integer value constant 0

Area: floating value constant which is assumed to be 0.0 and will be

Updated later

twoptzero: floating value constant 2.0

OUTPUT:

After entering all coordinates and pressing enter it will directly print the area

ANALYSIS:

First we will take coordinates of 1st input. Later take 2nd coordinate.

In every while loop we will compute area accordingly and it will later Update as follows 2nd coordinate will move to 1st coordinates and later we will update 2nd coordinate with next coordinates and compute area again.

My area computation will be done for each set of two points accordingly

And area will be updated.

I used floating registers for computing calculations involved in area and temporary integer registers for storing integer inputs.

Cases covered:

I covered all possible cases for computing area.

Case1) y1y2>0

1.1) y1>0

1.2) y1<0

Case2) y1y2<0

2.1) y1>0

2.2) y1<0

Case3) y1y2=0

3.1) y1>0

3.2) y1<0

3.3) y1=0

3.3.1) y2>0

3.3.2) y2<0