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Lab 2

1. Want: Area of the triangle

How: Run Heron’s Formula

A=sqrt(p\*(p-a)\*(p-b)\*(p-c))

Need: Lengths of all sides, semi perimeter of triangle

Semi\_p=0.5(a+b+c)

Output:

\*1

Input the length of side A:

5

Input the length of side B:

2

Input the length of side C:

6

The area is = 4.683748498798798

\*2

Input the length of side A:

9

Input the length of side B:

6

Input the length of side C:

5

The area is = 14.142135623730951

\*3

Input the length of side A:

7

Input the length of side B:

8

Input the length of side C:

7

The area is = 22.978250586152114

1. Want: Total bill amount including tax and tip with decimals aligned

How: Add with tax and tip and printf to format

Need: Bill amount, tax rate, tip rate

Output:

\*1

What is the bill Amount?

54.43

Bill 54.43

Tax 3.27

Tip 8.16

Total 65.86

\*2

What is the bill Amount?

102.65

Bill 102.65

Tax 6.16

Tip 15.40

Total 124.21

\*3

What is the bill Amount?

34.54

Bill 34.54

Tax 2.07

Tip 5.18

Total 41.79

1. Want: Total change amount

How: Add up amount of coins

Need: Number of each type of coin

Output:

\*1

How many quarters?

4

How many dimes?

2

How many nickels?

6

How many pennies?

3

You have $ 1.53

\*2

How many quarters?

5

How many dimes?

4

How many nickels?

5

How many pennies?

45

You have $ 2.35

\*3

How many quarters?

3

How many dimes?

8

How many nickels?

34

How many pennies?

4

You have $ 3.29