Computer Science 1710

Assignment: 1

Matthew Bartlett

201437787

Part 1: Algorithm

1.

     1-Set costJan=0.50

     2-Set costFeb=0.75

     3-Set costMar=1.00

     4-Input sizeJan

     5-Input sizeFeb

     6-Input sizeMar

     7-Set sizeTotal=sizeJan+sizeFeb+sizeMar

     8-Set costTotal=(costJan*sizeJan)+(costFeb*sizeFeb)+(costMar*sizeMar)

     9-Set smallBoxes=sizeTotal/2/5

     10-Set largeBoxes=sizeTotal/2/20

     11-Set costAverage=costTotal/sizeTotal

     12-Set costSmall=costAverage*5*1.9

     13-Set costLarge=costAverage*20*1.8

     14-Print ("Number of Small Boxes packed: ", smallBoxes)

     15-Print ("Number of Large Boxes packed: ", largeBoxes)

     16-Print ("Selling Price Small Box: ", costSmall)

     17-Print ("Selling Price Small Box: ", costLarge

Part 2: Tracing

1.

Line Number	n1	n2	d1	d2	Output
1					Enter first integer:
2	4				
3					Enter second integer:
4		6			
5			24		
6				24.0	
7				5.0	
8				36.0	
9				6.0	
10				6.4	
11			30		
12				36.4	
13			36		
14		7		-13.0	
15			50		
16			2		
17					Value of n1: 4
18					Value of n2: 7.00
19					Value of d1: 2
20					Value of d2: -13.00

Formatted Output:

Value of n1:   4

Value of n2:   7.00

Value of d1:   2

Value of d2: -13.00

2.

Line Number	str1	str2	len	Output
1	ABSTENTIOUS			
2			11	
3		O		
4		OS		
5		OSTENT		
6		OSTENTA		
7		OSTENTATIOUS		
8				OSTENTATIOUS is the word extracted from ABSTENTIOUS

Formatted Output:

OSTENTATIOUS is the word extracted from ABSTENTIOUS