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COSC 117

1 April 2020

Homework 6 Methods

1. WANT: Celsius Fahrenheit conversion chart

HOW: Method that does conversion equation

NEED: nothing from user

Output (only 1 possible output

-1

Fahrenheit Celsius

-50 -45.56

-45 -42.78

-40 -40.00

-35 -37.22

-30 -34.44

-25 -31.67

-20 -28.89

-15 -26.11

-10 -23.33

-5 -20.56

0 -17.78

5 -15.00

10 -12.22

15 -9.44

20 -6.67

25 -3.89

30 -1.11

35 1.67

40 4.44

45 7.22

50 10.00

55 12.78

60 15.56

65 18.33

70 21.11

75 23.89

80 26.67

85 29.44

90 32.22

95 35.00

100 37.78

105 40.56

110 43.33

115 46.11

120 48.89

125 51.67

130 54.44

135 57.22

140 60.00

145 62.78

150 65.56

1. WANT: Make method for gravity falling chart problem

HOW: input equation you gave us in the rubric

NEED: input from user for height and velocity

Output

-1

Input the Initial Height (in feet): 65

Input the Initial Velocity (in feet/sec.): 23

Time Height

0.0 65.000

0.1 67.139

0.2 68.957

0.3 70.452

0.4 71.626

0.5 72.478

0.6 73.009

0.7 73.217

0.8 73.104

0.9 72.670

1.0 71.913

1.1 70.835

1.2 69.435

1.3 67.713

1.4 65.669

1.5 63.304

1.6 60.617

1.7 57.608

1.8 54.278

1.9 50.626

2.0 46.652

2.1 42.356

2.2 37.739

2.3 32.800

2.4 27.539

2.5 21.956

2.6 16.052

2.7 9.826

2.8 3.278

2.9 Hit the ground.

-2

Input the Initial Height (in feet): 10

Input the Initial Velocity (in feet/sec.): 20

Time Height

0.0 10.000

0.1 11.839

0.2 13.357

0.3 14.552

0.4 15.426

0.5 15.978

0.6 16.209

0.7 16.117

0.8 15.704

0.9 14.970

1.0 13.913

1.1 12.535

1.2 10.835

1.3 8.813

1.4 6.469

1.5 3.804

1.6 0.817

1.7 Hit the ground.

-3

Input the Initial Height (in feet): 12

Input the Initial Velocity (in feet/sec.): 30

Time Height

0.0 12.000

0.1 14.839

0.2 17.357

0.3 19.552

0.4 21.426

0.5 22.978

0.6 24.209

0.7 25.117

0.8 25.704

0.9 25.970

1.0 25.913

1.1 25.535

1.2 24.835

1.3 23.813

1.4 22.469

1.5 20.804

1.6 18.817

1.7 16.508

1.8 13.878

1.9 10.926

2.0 7.652

2.1 4.056

2.2 0.139

2.3 Hit the ground.

1. WANT: Nice blackjack output

HOW: implement card string method to name them automatically (that I already created)

NEED: nothing from user

Output

-1

Player 1

Card 1: 10 of Hearts

Card 2: 3 of Hearts

Player 2

Card 1: 2 of Diamonds

Card 2: King of Clubs

-2

Player 1

Card 1: King of Spades

Card 2: King of Spades

Player 2

Card 1: Jack of Hearts

Card 2: King of Spades

-3

Player 1

Card 1: 5 of Hearts

Card 2: 3 of Hearts

Player 2

Card 1: 10 of Diamonds

Card 2: King of Spades

1. WANT: High low game with pretty output

HOW: use the 3 methods that I already created to clean up the output, create win method to find the winner

NEED: nothing from user

Output

-1

Player 1: 5 of Diamonds

Player 2: 4 of Spades

Player 1 Wins

-2

Player 1: 3 of Spades

Player 2: 8 of Clubs

Player 2 Wins

-3

Player 1: 5 of Spades

Player 2: 2 of Spades

Player 1 Wins

1. WANT: Method to help with factorial

HOW: Take code from factorial lab and modify it into a method

NEED: number from user

Output

-1

n = 6

6! = 720

-2

n = 76

76! = 0

-3

n = 28

28! = -5968160532966932480

1. WANT: method to help with double factorial

HOW: take code from double factorial lab and modify it into a method

NEED: number from user

Output

-1

n = 43

43!! = -2248865975908460677

-2

n = 17

17!! = 34459425

-3

n = 8

8!! = 384

1. WANT:

HOW:

NEED:

Output

-1

Input a phrase: oh ok then

The E count is 1

The H count is 2

The K count is 1

The N count is 1

The O count is 2

The T count is 1

The most frequent letters are H and O with a count of 2.

-2

Input a phrase: neo follow the white rabbit

The A count is 1

The B count is 2

The E count is 3

The F count is 1

The H count is 2

The I count is 2

The L count is 2

The N count is 1

The O count is 3

The R count is 1

The T count is 3

The W count is 2

The most frequent letters are E, O and T with a count of 3.

-3

Input a phrase: I'm only burning my half

The A count is 1

The B count is 1

The F count is 1

The G count is 1

The H count is 1

The I count is 2

The L count is 2

The M count is 2

The N count is 3

The O count is 1

The R count is 1

The U count is 1

The Y count is 2

The most frequent letter is N with a count of 3.