Homework1

Dario Rendon

Problem 1 output:

Please enter a positive integer:

42

Please enter a second positive integer:

5

Displaying sizes of various datatypes:

A bool is 1 bytes long

A char is 1 bytes long

A int is 4 bytes long

A float is 4 bytes long

A double is 8 bytes long

42 raised to the power of 5 is 1.30691e+08

42 is the larger number between 42 and 5

Printing a number in various bases:

Decimal: 42

Hexadecimal: 2A

Octal: 52

Binary: 101010

Printing a number in various bases:

Decimal: 5

Hexadecimal: 5

Octal: 5

Binary: 101

Problem 2 output:

Will now read a 3x3 matrix from file "matrix.txt"

Transposing the following matrix using array indices:

1 2 3

4 5 6

7 8 9

Transposed matrix is:

1 4 7

2 5 8

3 6 9

Transposing the following matrix using pointers:

1 2 3

4 5 6

7 8 9

Transposed matrix is:

1 4 7

2 5 8

3 6 9

Problem 3 output:

Number or Records to read? 15

PRINTING 10 RECORDS!

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Subaru, Outback, 2016, green

Toyota, Corolla, 2006, white

Dodge, Neon, 1993, pink

Ford, Fusion, 2013, yellow

Honda, Fit, 2015, blue

Ford, Expedition, 2009, silver

Toyota, Corolla, 2006, white

Ford, Fusion, 2013, yellow

Jeep, Cherokee, 1999, red

Mazda, Protoge, 1996, gold

SORTING RECORDS BY YEAR.....

PRINTING 10 RECORDS!

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Dodge, Neon, 1993, pink

Mazda, Protoge, 1996, gold

Jeep, Cherokee, 1999, red

Toyota, Corolla, 2006, white

Toyota, Corolla, 2006, white

Ford, Expedition, 2009, silver

Ford, Fusion, 2013, yellow

Ford, Fusion, 2013, yellow

Honda, Fit, 2015, blue

Subaru, Outback, 2016, green

SORTING RECORDS BY MAKE.....

PRINTING 10 RECORDS!

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Dodge, Neon, 1993, pink

Ford, Expedition, 2009, silver

Ford, Fusion, 2013, yellow

Ford, Fusion, 2013, yellow

Honda, Fit, 2015, blue

Jeep, Cherokee, 1999, red

Mazda, Protoge, 1996, gold

Subaru, Outback, 2016, green

Toyota, Corolla, 2006, white

Toyota, Corolla, 2006, white

CHECKING FOR DUPLICATES...

Ford, Fusion, 2013, yellow

Ford, Fusion, 2013, yellow

Toyota, Corolla, 2006, white

Toyota, Corolla, 2006, white