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CPSC 1011-100 and CPSC 1010-002

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Lab 04 – Part 2

Collaboration: Erin Litzler, Lecture CPSC 1010-002

Set 12 variables:

3 boolean variables to false

3 row variables

3 column variables

2 diagonal variables

1 user string

Prompt user for solution

Scan and store user input

Print out users solution for magic square

Print “Analyzing”

IF (row 1 adds to 15) and (row 2 adds to 15) and (row 3 adds to 15)

Rows are correct so Boolean variable rows = true

ELSE

if row 1 does not equal 15

Print that row is incorrect

if row 2 does not equal 15

print that row is incorrect

if row 3 does not equal 15

print that row is incorrect

IF (column 1 adds to 15) and (column 2 adds to 15) and (column 3 adds to 15)

Columns are correct so Boolean variable columns = true

ELSE

if column 1 does not equal 15

Print that column is incorrect

if column 2 does not equal 15

print that column is incorrect

if column 3 does not equal 15

print that column is incorrect

IF (diagonal adds to 15) and (diagonal 2 adds to 15)

diagonals are correct so Boolean variable diagonals = true

ELSE

if diagonal 1 does not equal 15

Print that diagonal is incorrect

if diagonal 2 does not equal 15

print that diagonal is incorrect

IF rows are true and columns are true and diagonals are true

Print that “this is a magic square”

ELSE

Print that “This is not a magic square”