CS-200: Programming I
Spring 2017
Northeastern Illinois University
PLTL: Week of 04/17/17
Review

Problem #1

- Write a program that has the class name `Problem1` and that has the `main` method. Leave the `main` method empty for now.
- Write a method named `diagSquare` that takes a 2D integer array `a`, and returns a boolean.
- The method should check if both diagonal sums of the square array are the same. If they are, return true.
- The program should then print out the boolean value that is returned.
- Several sample usages are provided for you below. Use the sample usages in the `main` method to test your code.

Sample Method Usage	Return Value

`int[][] a1 = {{1, 2, 3, 4},`
`{5, 6, 7, 8},`
`{2, 1, 5, 9},`
`{10, 2, 3, 10}};`
	true

`int[][] a1 = {{3, 4, 7, 10},`
`{19, 50, 4, 6},`
`{2, 5, 11, 74},`
`{1, 2, 3, 4}};`
	false

Problem #2

- Write a method named `change2D` that takes a 1D aray of integers and returns a 2D array.
- The method should create a new 2D array that always has two rows. The method should place the elements from the 1D array that are not divisble by 2 into equally divided number of columns in the 2D array. You may assume that the number of elements taken from the 1D array will always be even.
- Create a print array method to display the output of the new 2D array.
- Several sample usages are provided for you below. Use the sample usages in the `main` method to test your code.

Sample Method Usage	Return Value
`int[] a1 = {2, 5, 37, 103, 94, 71, 67, 99, 43, 21};`	`{{5, 37, 103, 71},` `{67, 99, 43, 21}}`
`int[] b1 = {3, 2, 6, 7};`	{{3}, {7}}