TD1 Object Oriented Programming

1-

- 1.1 Implement a class *OperationArray* that contains:
 - A static method to fill an array of integers
 - A static method to sort by ascending order the array of integers
 - A static method to display the array of integers
 - A method *Main* that creates an array of 10 integers, fills it, sorts it and displays it.

1.2

- a) Add a static method *countEven* to the class *OperationArray* that counts and returns the number of even numbers in the array of integers.
- b) Test the method *countEven* in the method *Main*.

1.3

- c) Add a static method *countPrime* to the class *OperationArray* that counts and returns the number of prime numbers in the array of integers.
- d) Test the method *countPrime* in the method *Main*.
- e) Add a static method called *copyFromArrayToArray* that copies the elements of the array from the index I to J into another array and in same indexes.

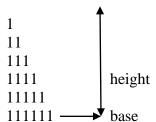
2-

Write a method *display(int dimension)* that displays a matrix as follow:

Example: dimension=4

3-

Write a method *display(int base, int height)* that displays the following:



Write in C# a static method copyFromAToB (int []A, int []B) which:

Fills the array B as follow:
 Each element of B is equal to the sum of two successive elements of A.
 Only the first element of B corresponds to the first element of A.
 Example

