

Lab Goal : This lab was designed to teach you how to use an array.

Lab Description : Take in any integer array perform several operations on that array. Determine if the values in array are all going up, if the values in the array are all going down, and return an array that contains a set number of values greater than a particular value.

An array that is going up will contain values that increase. [1,2,3,4,5] is going up. [1,2,3,0,8] is not going up. An array that is going down will contain values that decrease. [5,4,3,2,1] is going down. [5,4,9,1,0] is not going down.

Sample Data :

```
[1,2,3,4,5,6,7,8,9,10]
[1,2,3,9,11,20,30]
[9,8,7,6,5,4,3,2,0,-2]
[3,6,9,12,15,18,21,23,19,17,15,13,11,10,9,6,3,2,1,0]
```

Files Needed ::

```
ArrayFunHouseTwo.java
ArrayFunHouseTwoRunner.java
```

Sample Output :

```
[1, 2, 3, 4, 5, 6, 7, 8, 9, 10]
is going Up ? true
[1, 2, 3, 9, 11, 20, 30]
is going Up ? true
[9, 8, 7, 6, 5, 4, 3, 2, 0, -2]
is going Up ? false
[3, 6, 9, 12, 15, 18, 21, 23, 19, 17, 15, 13, 11, 10, 9, 6, 3, 2, 1, 0]
is going Up ? false
```

```
[1, 2, 3, 4, 5, 6, 7, 8, 9, 10]
is going Down ? false
[1, 2, 3, 9, 11, 20, 30]
is going Down ? false
[9, 8, 7, 6, 5, 4, 3, 2, 0, -2]
is going Down ? true
[3, 6, 9, 12, 15, 18, 21, 23, 19, 17, 15, 13, 11, 10, 9, 6, 3, 2, 1, 0]
is going Down ? false
```

```
[3, 6, 9, 12, 15, 18, 21, 23, 19, 17, 15, 13, 11, 10, 9, 6, 3, 2, 1, 0]
first 7 values greater than 9 [12, 15, 18, 21, 23, 19, 17]
first 5 values greater than 15 [18, 21, 23, 19, 17]
```