Challenge: Insert a Value Before an Index in Sorted Order

We'll cover the following

Problem Statement:

In this challenge, you have to implement the insert function which will be taking three parameters as inputs: `array`, `rightIndex`, and `value`.

Explanation:

Before the insert function is called:

- the elements from `array[0]` to `array[rightIndex]` are sorted in ascending order.
- the `value` is in the array at an index from `array[rightIndex]` to `array[end]`.

After calling the insert function:

- the `value` from the array is removed from its original position and it is then inserted between `array[0]` to `array[rightIndex+1]`, maintaining the ascending order.

In order to do this, the insert function will need to make room for `value` by moving items that are greater than `value` to the right. It should start at `rightIndex`, and stop when it finds an item that is less than or equal to `value`,

or when it reaches the beginning of the array. Once the function has made room for the value, it can write it to the array.

Function Prototype:

```
void insert(int[] array, int rightIndex, int value)
```

Sample Input:

```
array = [2, 3, 5, 7, 11, 13, 9, 6]
rightIndex = 5
value = 9
```

Sample Output:

```
[2, 3, 5, 7, 9, 11, 13, 6]
```

Coding Exercise:

Understand the problem first, before implementing it. If you get stuck anywhere, you are free to refer to the solution. Good Luck!

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```
class Solution {
  public static void insert(int[] array, int rightIndex, int value) {
    int[] result = new int[array.length];
    for(int i = 0; i < array.length; i++){
      if(array[i] == value){
        System.arraycopy(array, 0, array, 0, array.length-(array.length-i-1));
        System.arraycopy(array, i+1, array, i, array.length-i-1);
        break;
      }
    }

    for(int i = 0; i < rightIndex; i++){
      if(value < array[i]){
        for(int j = (array.length-1); j > i; j--)
        {
          array[j] = array[j-1];
        }
        array[i] = value;
        break;
      }
    }
  }
};
```