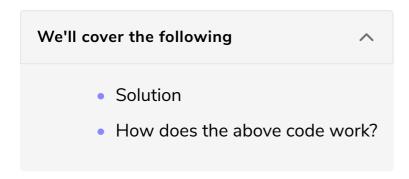
Solution Review: Find the Maximum Value

In this review, solution of the challenge 'Find the Maximum Value' from the previous lesson is provided.



Solution

```
class CheckMax {
                                                                                              //Returns maximum value from Array passed as parameter
    public static int findMaxVal(int[] arr) {
       int max = arr[0];
       for (int i = 1; i < arr.length; i++) { //iterate over all the array elements
            if (arr[i] > max) { //check if current element is greater than the already
                //stored max value
                max = arr[i]; // if yes then update the max value to current element
            }
       }
        return max; //return the maximum value
    } //end of findMaxValue()
//end of CheckMax
    public static void main( String args[] ) {
        int array [] = \{78, 89, 32, 90, 21\};
        System.out.println( "The maximum value in an array is: "+findMaxVal(array));
    }
}
```







How does the above code work?

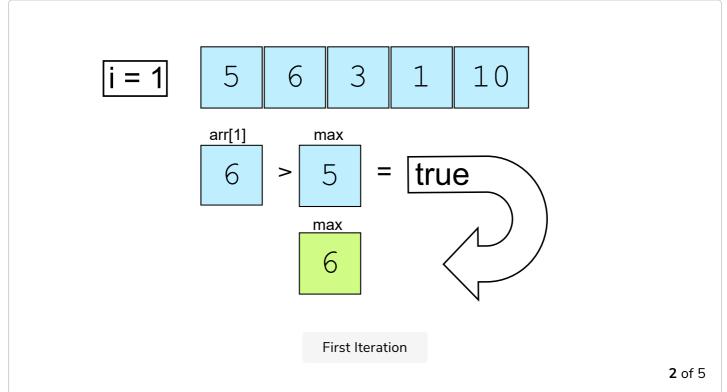
- **Line 5:** We start by declaring an max variable and storing the first element of the array in it.
- **Line** 7: We are using the *for loop* to traverse through the array using the

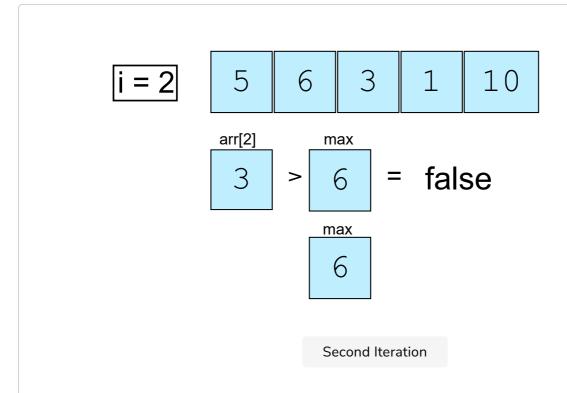
torritror variable 1 as the thuex.

- Line 9-11: The if condition is then comparing the current element with the value stored in the max variable. The max variable will be updated only if the previously stored value is lesser than the currently compared array element. Otherwise, i is incremented for the next repetition.
- Line 15: In the last statement the max variable is returned to the calling point.

$$[max = arr[0] = 5 \quad 6 \quad 3 \quad 1 \quad 10]$$

$$[max = 5]$$
Assigning Value to max

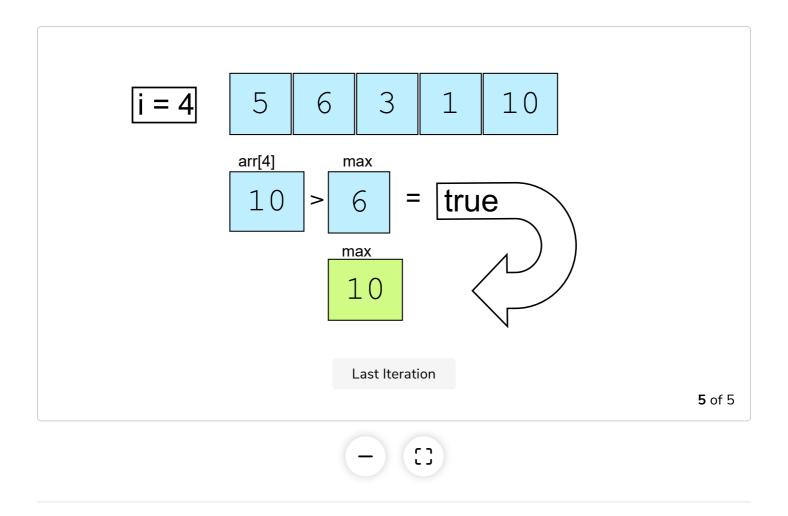




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In the next challenge, we will sort the values stored in an array.