



Code Review

Best practices, common errors, optimal solutions, and clean code.

Week 3

Agenda

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GitHuB Repo

02

Project Structure

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Tasks Review

04

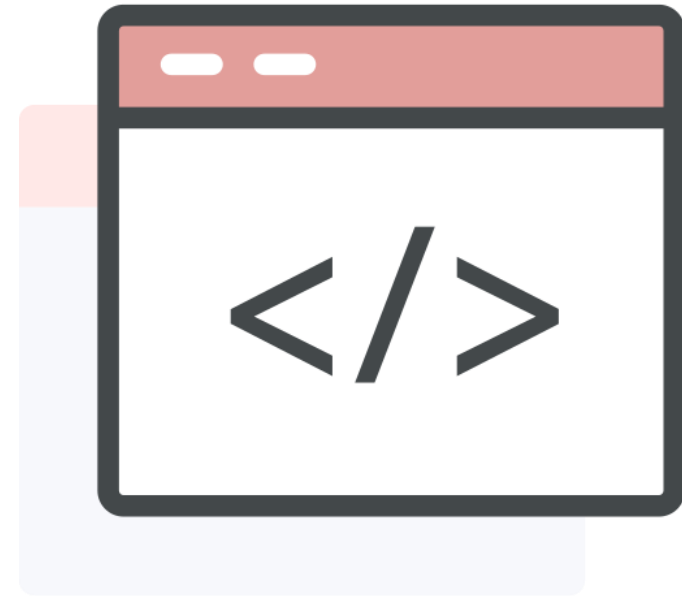
Questions



GitHub Repo



Project Structure



Code Review



```
public class FirstTask {  
  
    public static void main(String[] args) {  
        findSpecificNumberInArrayAndPrintPositions(new int[]{1, 2, 3, 4, 5, 6, 7, 8, 9}, 9);  
    }  
  
    static void findSpecificNumberInArrayAndPrintPositions(int[] numbers, int number) {  
        for (int i = 0; i < numbers.length; i++) {  
            if (numbers[i] == number) {  
                if (i < 5) {  
                    continue;  
                } else {  
                    System.out.println(i);  
                    break;  
                }  
            }  
        }  
    }  
}
```

```
// in txt file
public class Main {
    public static void main(String[] args) {

        Scanner in=new Scanner (System.in);
        int n=in.nextInt();
        int a[]=new int[n];

        for(int i=0;i<a.length;i++){
            a[i]= in.nextInt();
        }

        int number =in.nextInt();

        for(int i=0;i<n;i++){
            if(a[i]==number){
                if(i+1<5){
                    continue;
                }
                else{
                    System.out.println(number+" "+(i+1));

                    break;
                }
            }
        }
    }
}
```

```
for(int i = 0; i < arr.length; i++) {  
    if(arr[i] == target && i > 4){  
        position = i;  
        break;  
    } else {  
        continue;  
    }  
}
```



```
int position = -1; // Position of the first occurrence

for (int i = 0; i < numbers.length; i++) {
    if (numbers[i] == target) {
        position = i;
        break;
    }
}

if (position < 5) {
    position = -1; // Reset position if it's less than 5
    for (int i = 5; i < numbers.length; i++) {
        if (numbers[i] == target) {
            position = i;
            break;
        }
    }
}
```

```
for (int i = 0; i < 5; i++){  
    for(int j = 5; j < arr.length; j++){  
        if(arr[i] == arr[j]){  
            System.out.println("number: " + arr[i] + " Position of 1st occurrence: " + j);  
            flag++;  
        }  
    }  
}
```



```
public class First_Occurrence {  
  
    public static void main(String[] args) {  
  
        int []myarr={1,2,3,4,5,1,2,3,4,5,1,2,3,4,5};  
        System.out.println(first_occurrence(myarr,4));  
  
    }  
  
    static int first_occurrence(int []arr,int element) {  
        int temp = -1;  
        for(int i=0;i<arr.length;i++) {  
            if ((arr[i]==element) && i>=5)  
            {  
                temp=i;  
                break;  
            }  
        }  
        return temp;  
    }  
}
```

```
static int frsirtOccuranceArray( int[] arr , int find){  
    int postion=0;  
    for ( int i=0;i<arr.length;++i) {  
        if(arr[i]==find && i>5){  
            postion= i+1;  
            break;  
        }else if (arr[i]==find && i<5){  
            postion= i+1;  
            continue;  
        }  
    }  
    return postion;  
}
```

```

public class Main {
    public static void main(String[] args) {

        findNumberOccurrence(1);

    }

    public static void findNumberOccurrence(int x) {
        int[] array = {1, 5, 6, 7, 9, 3, 1, 2}; // x is number to search for

        int position; //Declare position


        for (int i = 0; i <= array.length; i++) {

            if (array[i] != x) {
                System.out.println("Number not found in the array");
                break;
            } else if (array[i] == x) {
                position = i;
                if (position < 5) {
                    System.out.println("Skip the first occurrence for number:" + x);
                }

                // If the position of the first occurrence is less than 5, skip it and continue searching
                for (i = 5; i < array.length; i++) {
                    if (array[i] == x) {
                        position = i;

                        System.out.println("the occurrence for number: " + x + " is at position:" + position);
                    }
                }
                break; //Found the first occurrence, exit loop
            }
        }
    }
}

```



```
public static float avg(int sum, int length)
{
    float avg = ((float) sum/ (float) length);
    return avg;
}
```



```
public class SecondTask {  
  
    public static void main(String[] args) {  
        int[] numbers = new int[]{1,2,3,4,1,12,54};  
        int sum = Arrays.stream(numbers).sum();  
        int average = sum / numbers.length;  
  
        System.out.println("Sum: " + sum);  
        System.out.println("Average: " + average);  
    }  
  
}
```

```
public class SUM_AVERAGE {  
  
    public static void main(String[] args) {  
        int []myarr={1,2,3,4,5,1,2,3,4,5,1,2,3,4,5};  
        sum_average(myarr);  
    }  
  
    static void sum_average(int [] arr)  
    {  
        int sum=0;  
        double avg=0;  
  
        for (int i=0;i<arr.length;i++)  
        {  
            sum+=arr[i];  
        }  
        avg=(double)sum/ arr.length;  
        System.out.println("sum= "+ sum +" & average= "+avg);  
    }  
}
```




```
public static double avg(long summ, int sizeOfArr){  
    return summ / sizeOfArr;  
}
```

```
public class Arrayoperation {  
    public static void main(String[] args) {  
        int[] numbers = {5, 10, 15, 20, 25};  
  
        int sum = calculateSum(numbers);  
        double average = calculateAverage(numbers);  
  
        System.out.println("Sum of elements: " + sum);  
        System.out.println("Average of elements: " + average);  
    }  
}
```



Q&A



Thank You