

## Week-03

### Arrays

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#### Program 1:

```
import java.util.Scanner;

public class digit{

    public static void main(String[]args){
        Scanner scanner =new Scanner(System.in);
        int size =scanner.nextInt();
        int[]inpar=new int[size];
        for(int i=0;i<size;i++){
            inpar[i]=scanner.nextInt();
        }
        int[]dig=new int[size];
        for(int i=0;i<size;i++){
            int num=inpar[i];
            if(i==0){
                dig[i]=num%10;
            }
            else if (i==1){
                dig[i]=(num/10)%10;
            }
            else if(i==2){
                dig[i]=(num/100)%10;
            }
            else if(i==3){
                dig[i]=(num/1000)%10;
            }
            else if(i==4){
                dig[i]=(num/10000)%10;
            }
            else{
                dig[i]=0;
            }
        }
    }
}
```

```

    }
    int fin=0;
    for(int digi:dig){
        fin+=digi*digi;
    }
    System.out.print(fin);
}
}

```

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## Program 2:

```

import java.util.Scanner;

public class longdig{

    public static void main(String[]args){
        Scanner sc=new Scanner(System.in);
        int n=sc.nextInt();
        int c = 1,v,seqtemp = 0,seq = 0,countmax = 0;
        int count = 0;
        while(c <= n){
            v = sc.nextInt();
            if(v >= 0){
                countmax= countmax + v;
                seqtemp++;
            }
            else{
                seqtemp = 0;
                countmax = 0;
            }
            if(seqtemp > seq ){
                seq = seqtemp;
                count = countmax;
            }
            else if (seq == seqtemp){
                count = count + countmax;
            }
        }
    }
}

```

```

        }
        c++;
    }
    if (count == 0)
        System.out.print(-1);
    else
        System.out.print(count);
}
}

```

---

### Program 3:

```

import java.util.Scanner;

public class res{

    public static int[]pa(int[]arr){
        int maxs=Integer.MIN_VALUE;
        for (int num:arr){
            if(num>maxs){
                maxs=num;
            }
        }
        for(int i=0;i<arr.length;i++){
            arr[i]=(arr[i]-maxs)*maxs;
        }
        return arr;
    }

    public static void main(String[]args){
        Scanner scanner =new Scanner (System.in);
        int n=scanner.nextInt();
        int[]arr=new int[n];
        for(int i=0;i<n;i++){
            arr[i]=scanner.nextInt();
        }
        int[]res=pa(arr);
        for(int i=0;i<n;i++){
            System.out.print(res[i]+" ");
        }
    }
}

```

```
        scanner.close();  
    }  
}
```