

Day 8 HomeWork

1.

```
import java.util.*;
```

```
public class Main {  
    public static void main(String[] args) {  
        Scanner sc = new Scanner(System.in);  
        int N = sc.nextInt();  
        int total[]=new int[N];  
        for (int i=0; i < N; i++) {  
            int demand = sc.nextInt();  
            int tens = demand / 10;  
            int r = demand % 10;  
            int sevens =r/7;  
            r=r% 7;  
            int fives =r/5;  
            r=r%5;  
            int ones = r;  
            total[i] = tens + sevens + fives + ones;  
        }  
        for (int i=0; i < N; i++) {  
            System.out.println(total[i]);  
        }  
    }  
}
```

2.

```
import java.util.*;
```

```
public class Main {  
    public static void main(String[] args) {  
        Scanner sc = new Scanner(System.in);  
        String s = sc.nextLine();  
        String t = sc.nextLine();  
        int moves = 0;  
        int zeros =0,ones=0;  
  
        for (int i = 0; i < s.length(); i++) {  
            char charS = s.charAt(i);  
            char charT = t.charAt(i);
```

```

        if (charS == '?' || charS == '?') {
            moves++;
        }
        else if(charS == '0' && charT != '0') zeros++;
        else if(charS == '1' && charT != '1') ones++;

    }

    moves+=Math.min(zeros,ones)+Math.abs(zeros-ones);
    System.out.println(moves);
}
}

```

3.

```

import java.util.*;
public class Main
{
    public static void main(String[] args) {
        Scanner scanner = new Scanner(System.in);
        int T = scanner.nextInt();
        ArrayList<String> ar = new ArrayList<>();
        for (int t = 0; t < T; t++) {
            String res = "";
            int N = scanner.nextInt();
            int T_limit = scanner.nextInt();
            int[] energies = new int[N];
            for (int i = 0; i < N; i++) {
                energies[i] = scanner.nextInt();
            }
            int P = scanner.nextInt();
            int D = scanner.nextInt();

            Arrays.sort(energies);
            for(int i=0;i<energies.length;i++){
                if(P > energies[i] && T_limit !=0 ){
                    P+= P-energies[i];
                    // System.out.println(P+"p");
                    T_limit -=1;
                    // System.out.println(T_limit+"t");
                }
            }
            else{
                res="NO";
            }
        }
    }
}

```

```

    }
}
if(P >= D){
    res="YES";
}
else{
    res="NO";
}
ar.add(res);
}
System.out.println(ar);
}
}

```

4.

```

import java.util.*;
public class Main
{
    public static void main(String[] args) {
        Scanner scanner = new Scanner(System.in);
        int T = scanner.nextInt();

        for (int t = 0; t < T; t++) {

            int N = scanner.nextInt();
            int arr[]= new int[N];
            for(int i=0;i<N;i++){
                arr[i]= scanner.nextInt();
            }
            Arrays.sort(arr);
            int sum=arr[0]+arr[1];
            int ts = sum;
            for(int i=2;i<N;i++){

                sum+=arr[i];
                ts+=sum;

            }
            System.out.println(ts);
        }
    }
}

```

5.

```
import java.util.*;
```

```
public class Main {
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
        int n = sc.nextInt();
        int[] a = new int[n];
        for (int i = 0; i < n; i++) {
            a[i] = sc.nextInt();
        }
        int m = sc.nextInt();

        int[] b = new int[m];
        for (int i = 0; i < m; i++) {
            b[i] = sc.nextInt();
        }

        LinkedHashMap<Integer, Integer> holes = new LinkedHashMap<>();
        for (int i = 0; i < n; i++) {
            holes.put(a[i], i + 1);
        }
        System.out.println(holes);

        LinkedHashMap<Integer, Integer> balls = new LinkedHashMap<>();
        for (int i = 0; i < m; i++) {
            for (int j = n-1; j >=0 ; j--) {
                Integer key = a[j];
                // System.out.println(key);
                if ((key > b[i] || key ==b[i]) && holes.get(key) > 0) {

                    holes.put(key, holes.get(key) - 1);
                    // System.out.print(holes+""+i);
                    if(!balls.containsKey(b[i])){
                        balls.put(b[i], j+1);
                    }
                    break;
                }
            }

            if(!balls.containsKey(b[i]))
                balls.put(b[i], 0);
        }
    }
}
```

```
// System.out.println(holes);
System.out.println(balls);
for(Integer val : balls.values()){
    System.out.print(val+" ");
}
}
}
```