Easy

1. Java 1D Array https://www.hackerrank.com/challenges/java-1d-array-introduction/problem

Sample Input

```
5
10
20
30
40
50
```

```
10
20
30
40
50
```

```
1. import java.util.*;
2.
3. public class Solution {
4.
5.
        public static void main(String[] args) {
6.
7.
            Scanner scan = new Scanner(System.in);
8.
            int n = scan.nextInt();
9.
10.
            int[] a = new int[n];
11.
            for(int i = 0; i < n; i++){</pre>
12.
                int num = scan.nextInt();
13.
                a[i] = num;
14.
15.
16.
            scan.close();
17.
18.
19.
            for (int i = 0; i < a.length; i++) {</pre>
20.
                System.out.println(a[i]);
21.
22.
23. }
```

2. Java Stdin and Stdout I https://www.hackerrank.com/challenges/java-stdin-and-stdout-1/problem

Input Format

There are 3 lines of input, and each line contains a single integer.

Sample Input

```
42
100
125
```

```
42
100
125
```

```
1. import java.util.*;
2.
3. public class Solution {
5.
        public static void main(String[] args) {
6.
            Scanner scan = new Scanner(System.in);
           int a = scan.nextInt();
8.
           int b = scan.nextInt();
9.
           int c = scan.nextInt();
10.
11.
12.
13.
           System.out.println(a);
14.
           System.out.println(b);
15.
           System.out.println(c);
16.
17.
18.
19. }
```

3. Java Inheritance I https://www.hackerrank.com/challenges/java-inheritance-1/problem

```
1. import java.io.*;
2. import java.util.*;
3. import java.text.*;
4. import java.math.*;
5. import java.util.regex.*;
6.
7. class Animal{
8.
       void walk()
9.
10.
           System.out.println("I am walking");
11.
12. }
13. class Bird extends Animal
14. {
15.
       void fly()
16.
17.
         System.out.println("I am flying");
18.
19.
20.
     void sing(){
21.
           System.out.println("I am singing");
22.
23. }
24.
25. public class Solution{
26.
27. public static void main(String args[]){
28.
29.
         Bird bird = new Bird();
30.
         bird.walk();
31.
         bird.fly();
32.
         bird.sing();
33.
34.
35.}
```

4. Java Currency Formatter https://www.hackerrank.com/challenges/java-currency-formatter/problem

Sample Input

```
12324.134
```

```
US: $12,324.13
India: Rs.12,324.13
China: ¥12,324.13
France: 12 324,13 €
```

```
1. import java.io.*;
2. import java.util.*;
3. import java.text.*;
4. import java.math.*;
5. import java.util.regex.*;
6.
7. public class Solution {
8.
9.
       public static void main(String[] args) {
10.
           Scanner scanner = new Scanner(System.in);
11.
           double payment = scanner.nextDouble();
12.
           scanner.close();
13.
14.
15.
           Locale indiaLocale = new Locale("en", "IN");
16.
17.
           NumberFormat us = NumberFormat.getCurrencyInstance(Locale.US);
18.
           NumberFormat india = NumberFormat.getCurrencyInstance(indiaLocale);
19.
            NumberFormat china = NumberFormat.getCurrencyInstance(Locale.CHINA);
20.
            NumberFormat france = NumberFormat.getCurrencyInstance(Locale.FRANCE);
21.
22.
            System.out.println("US: " + us.format(payment));
23.
            System.out.println("India: " + india.format(payment));
24.
            System.out.println("China: " + china.format(payment));
25.
            System.out.println("France: " + france.format(payment));
26.
27. }
```

5. Java Abstract Class https://www.hackerrank.com/challenges/java-abstract-class/problem

Sample Input

```
A tale of two cities

Sample Output
```

```
The title is: A tale of two cities
```

```
1. import java.util.*;
2. abstract class Book{
3.
       String title;
       abstract void setTitle(String s);
4.
5.
       String getTitle(){
           return title;
6.
8.
9. }
10.
11. //Write MyBook class here
12. class MyBook extends Book{
13.
       void setTitle(String s){
14.
15.
16.}
17.
18. public class Main{
19.
20.
       public static void main(String []args){
21.
22.
           Scanner sc=new Scanner(System.in);
23.
           String title=sc.nextLine();
24.
           MyBook new_novel=new MyBook();
25.
           new_novel.setTitle(title);
26.
           System.out.println("The title is: "+new_novel.getTitle());
27.
           sc.close();
28.
29.
30. }
```

Java Loops I https://www.hackerrank.com/challenges/java-loops-i/problem

Sample Input

```
2
```

```
2 x 1 = 2

2 x 2 = 4

2 x 3 = 6

2 x 4 = 8

2 x 5 = 10

2 x 6 = 12

2 x 7 = 14

2 x 8 = 16

2 x 9 = 18

2 x 10 = 20
```

```
1. import java.io.*;
2. import java.math.*;
3. import java.security.*;
4. import java.text.*;
5. import java.util.*;
6. import java.util.concurrent.*;
7. import java.util.regex.*;
8.
9. public class Solution {
10.
11.
       private static final Scanner scanner = new Scanner(System.in);
12.
13.
       public static void main(String[] args) {
14.
           int N = scanner.nextInt();
15.
16.
           for(int x = 1; x <= 10; x++){</pre>
17.
18.
                System.out.println(N +" \times "+ \times +" = "+ Hasil);
19.
20.
21.
            scanner.skip("(\r\n|[\n\r\u2028\u2029\u0085])?");
22.
23.
            scanner.close();
24.
25.}
```

7. Java String Reverse https://www.hackerrank.com/challenges/java-string-reverse/problem

Sample Input

```
madam
```

```
Yes
```

```
1. import java.io.*;
2. import java.util.*;
3.
4. public class Solution {
5.
6.
        public static void main(String[] args) {
7.
8.
           Scanner sc=new Scanner(System.in);
9.
           String A=sc.next();
10.
11.
12.
            String B = "";
13.
            for(int i = A.length() - 1; i >= 0; i--){
14.
                B = B + A.charAt(i);
15.
16.
17.
            if(A.equals(B)){
18.
                System.out.print("Yes");
19.
            }else{
20.
                System.out.print("No");
21.
22.
23.
24. }
```

8. Valid Username Regular Expression https://www.hackerrank.com/challenges/valid-username-checker/problem

Sample Input 0

```
8
Julia
Samantha
Samantha
Samantha
Samantha
Samantha?10_2A
JuliaZ007
Julia@007
_Julia@007
```

```
Invalid
Valid
Valid
Invalid
Invalid
Invalid
Valid
Valid
Invalid
Invalid
```

```
    import java.util.Scanner;

2. class UsernameValidator {
3.
4.
6.
        public static final String regularExpression = "^[a-zA-Z][\\w]{7,29}$";
8.
9. public class Solution {
        private static final Scanner scan = new Scanner(System.in);
10.
11.
12.
        public static void main(String[] args) {
13.
           int n = Integer.parseInt(scan.nextLine());
14.
            while (n-- != 0) {
15.
                String userName = scan.nextLine();
16.
17.
                if (userName.matches(UsernameValidator.regularExpression)) {
18.
                    System.out.println("Valid");
19.
                } else {
20.
                    System.out.println("Invalid");
21.
22.
23.
24.
```

Medium

1. Java MD5 https://www.hackerrank.com/challenges/java-md5/problem

Sample Input 0

```
HelloWorld

Sample Output 0

68e109f0f40ca72a15e05cc22786f8e6

Sample Input 1

Javarmi123
```

```
2da2dle0ce7b4951a858ed2d547ef485
```

```
1. import java.io.*;
2. import java.util.*;
3. import java.security.*;
4.
5. public class Solution {
6.
       public static void main(String[] args) throws NoSuchAlgorithmException {
8.
   r class should be named Solution. */
9.
           Scanner scan = new Scanner(System.in);
10.
11.
           String word = scan.nextLine();
12.
13.
           MessageDigest md = MessageDigest.getInstance("MD5");
14.
           byte[] hashInBytes = md.digest(word.getBytes());
15.
           StringBuilder sb = new StringBuilder();
16.
17.
            for(byte b : hashInBytes){
18.
               sb.append(String.format("%02x", b));
19.
20.
21.
           System.out.println(sb.toString());
22.
23.
24.
```