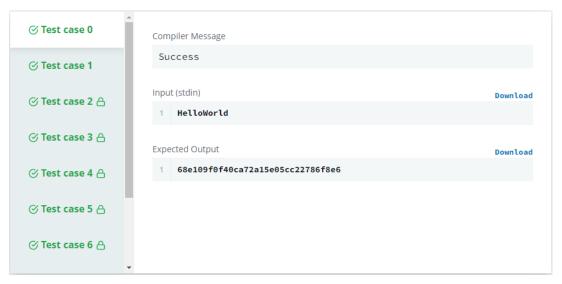
A. Soal Medium

1. Java MD5

Link: https://www.hackerrank.com/challenges/java-md5/problem

Accepted Answer:

```
Language: Java 8
       public static void main(String[] args) {
           String s = "";
10
           Scanner sc = new Scanner(System.in);
11
           s = sc.next();
12
           String hash = "";
13
14
           try {
15
               MessageDigest md5 = MessageDigest.getInstance("MD5");
16
               md5.update(s.getBytes());
               byte[] digest = md5.digest();
17
               hash = DatatypeConverter.printHexBinary(digest);
18
19
               s = hash;
20
               System.out.println(s.toLowerCase());
21
           } catch (NoSuchAlgorithmException e) {
               System.out.println("can't find the suitable algorithms");
22
23
           }
24 }
```



Soal Easy

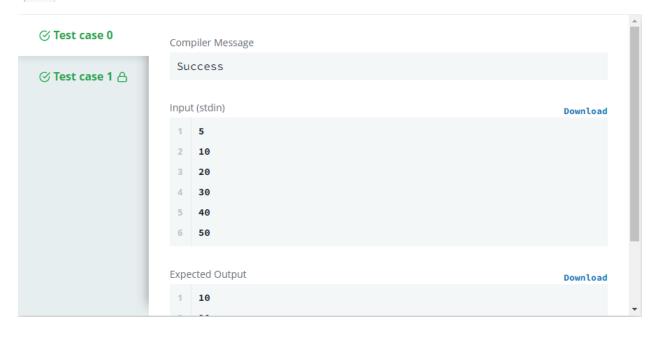
1. Java 1D Array

Link: https://www.hackerrank.com/challenges/java-1d-array-introduction/problem

Accepted Answer:

```
Language: Java 8

10
11         int[] a = new int[n];
12         for (int i = 0; i < a.length; i++) {
13             a[i] = scan.nextInt();
14         }
15</pre>
```

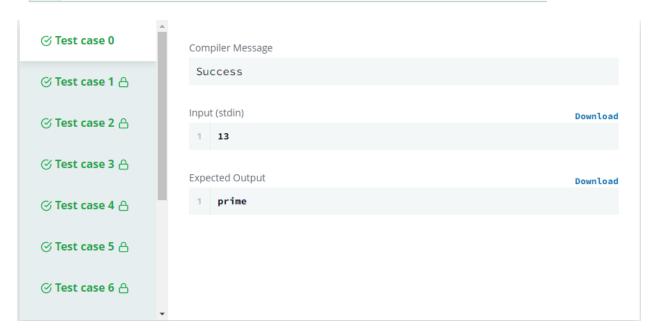


2. Java Primality Test

Link: https://www.hackerrank.com/challenges/java-primality-test/problem

Accepted Answer:

```
Language: Java 8
11
       private static final Scanner scanner = new Scanner(System.in);
12
       public static void main(String[] args) {
13
           String n = scanner.nextLine();
14
           BigInteger big = new BigInteger(n);
15
16
           if (big.isProbablePrime(1)) {
17
               System.out.println("prime");
18
19
           } else {
               System.out.println("not prime");
20
21
           scanner.close();
22
23
       }
24 }
25
```

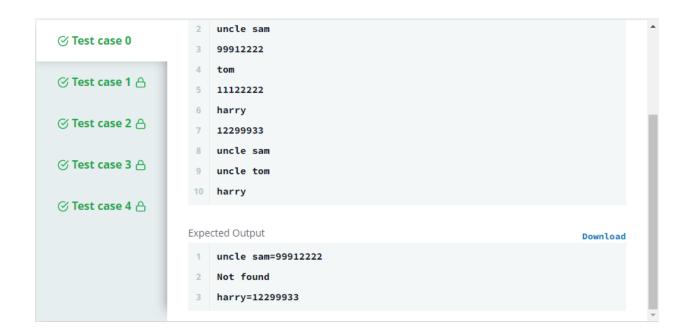


3. Java Map (Phonebook)

Link: https://www.hackerrank.com/challenges/phone-book/problem

Accepted Answer:

```
Language: Java 8
 1 //Complete this code or write your own from scratch
 2 import java.util.*;
 3 import java.io.*;
 5 class Solution{
 6
       public static void main(String []argh)
 7
 8
           Scanner in = new Scanner(System.in);
 9
10
           HashMap<String, String> maps = new HashMap<>();
11
12
           int n=in.nextInt();
           in.nextLine();
13
            for(int i=0;i<n;i++)
14
15
                String name=in.nextLine();
16
                int phone=in.nextInt();
17
18
                maps.put(name, String.valueOf(phone));
19
                in.nextLine();
20
            while(in.hasNext())
21
22
23
                String s=in.nextLine();
24
                if (maps.get(s)==null){
                    System.out.println("Not found");
25
                } else {
26
27
                    System.out.println(s+"="+maps.get(s));
28
                }
```



4. Java Sort

Link: https://www.hackerrank.com/challenges/java-sort/problem

Accepted Answer:

```
Language: Java 8
24 //Complete the code
25 public class Solution
26 {
27
       public static void main(String[] args){
           Scanner in = new Scanner(System.in);
28
            int testCases = Integer.parseInt(in.nextLine());
29
30
           List<Student> studentList = new ArrayList<Student>();
31
32
           while(testCases>0){
                int id = in.nextInt();
33
                String fname = in.next();
34
35
                double cgpa = in.nextDouble();
36
37
                Student st = new Student(id, fname, cgpa);
38
                studentList.add(st);
39
40
               testCases--;
41
           }
           Collections.sort(studentList,
42
               Comparator.comparing(
43
44
                   Student::getCgpa).reversed()
                   .thenComparing(Student::getFname)
45
                   .thenComparing(Student::getId)
46
47
           );
           for(Student st: studentList){
48
49
               System.out.println(st.getFname());
50
51
       }
52 }
```

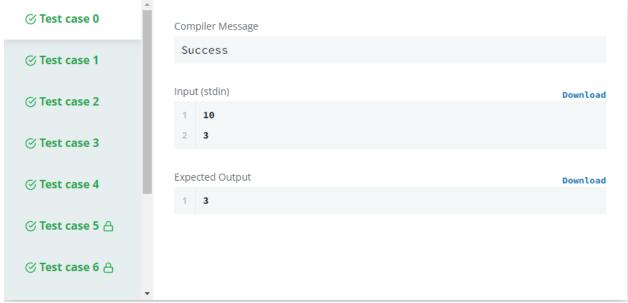
Input (stdin) Download **⊘** Test case 0 2 33 Rumpa 3.68 **⊘** Test case 1 △ 3 85 Ashis 3.85 4 56 Samiha 3.75 5 19 Samara 3.75 6 22 Fahim 3.76 Expected Output Download 1 Ashis 2 Fahim 3 Samara 4 Samiha **⊘** Test case 6 △ 5 Rumpa

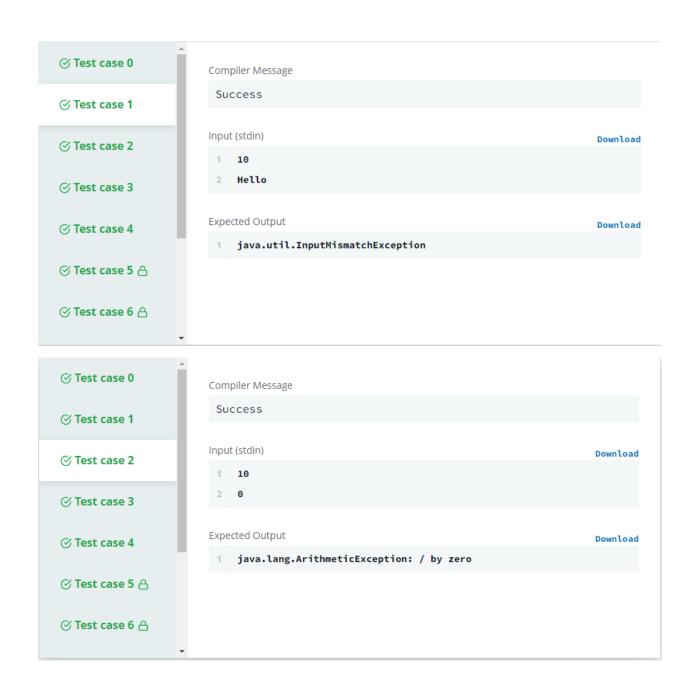
5. Java Exception-Handling (Try Catch)

Link: https://www.hackerrank.com/challenges/java-exception-handling-try-catch/problemQ:

Accepted Answer:

```
Language: Java 8
                                                                                           ្រ Open in editor
       public static void main(String[] args) {
          /* Enter your code here. Read input from STDIN. Print output to STDOUT. Your class should be named
   Solution. */
 8
         try {
 9
              Scanner sc = new Scanner(System.in);
             int x = sc.nextInt();
10
11
             int y = sc.nextInt();
             int z = x/y;
12
13
              if (y==0) {
14
                  throw new java.lang.ArithmeticException("/ by zero");
15
              } else {
16
                  System.out.println(z);
17
              }
18
          } catch(java.lang.ArithmeticException ae){
19
              System.out.println(ae);
             } catch(InputMismatchException ime){
20
                  System.out.println(ime.getClass().getName());
21
22
              } catch(Exception e){
23
                  System.out.println(e);
24
             }
25
        }
26 }
27
 ⊘ Test case 0
                           Compiler Message
```





6. Java Reflection

Link: https://www.hackerrank.com/challenges/java-reflection-attributes/problemQ:

Accepted Answer:

```
Language: Java 7
84 public class Solution {
85
           public static void main(String[] args){
86
               Class student = Student.class;
87
88
               Method[] methods = student.getDeclaredMethods();
89
               ArrayList<String> methodList = new ArrayList<>();
90
               for(Method mtd : methods){
91
92
                   methodList.add(mtd.getName());
93
               }
               Collections.sort(methodList);
94
95
               for(String name: methodList){
                   System.out.println(name);
96
97
               }
           }
98
```



7. Java Method Overriding

Link: https://www.hackerrank.com/challenges/java-method-overriding/problem

Accepted Answer:



8. Java Generics

Link: https://www.hackerrank.com/challenges/java-generics/problem

Accepted Answer:

```
Language: Java 7
 6
 8 class Printer
 9 {
10
      //Write your code here
11
      public static <E> void printArray(E[] inputArr){
          for (E i:inputArr){
12
               System.out.println(i);
13
14
15
      }
16
17 }
18
 ⊘ Test case 0
                   Compiler Message
                    Success
                   Expected Output
                                                                                 Download
                    3 3
                    4 Hello
                    5 World
```