

NAMA: ANDI DWI SAPUTRO

Hackerrank username: andiads06 (DAY 3)

A. Soal Medium

1. Java MD5

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

Accepted Answer:


Submitted Code


Language: Java 8


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


✔ Test case 0


✔ Test case 1

✔ Test case 2 

✔ Test case 3 

✔ Test case 4 

✔ Test case 5 

✔ Test case 6 

Compiler Message

Success

Input (stdin)

[Download](#)

```
1 HelloWorld
```

Expected Output

[Download](#)

```
1 68e109f0f40ca72a15e05cc22786f8e6
```

Soal Easy

1. Java 1D Array

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

Accepted Answer:

Submitted Code

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
```

✓ Test case 0

✓ Test case 1

Compiler Message

Success

Input (stdin)

Download

1	5
2	10
3	20
4	30
5	40
6	50

Expected Output

Download

1	10
---	----

2. Java Primality Test

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


Accepted Answer:


Submitted Code


Language: Java 8


```
10
11     private static final Scanner scanner = new Scanner(System.in);
12
13     public static void main(String[] args) {
14         String n = scanner.nextLine();
15         BigInteger big = new BigInteger(n);
16
17         if (big.isProbablePrime(1)) {
18             System.out.println("prime");
19         } else {
20             System.out.println("not prime");
21         }
22         scanner.close();
23     }
24 }
25
```


✓ Test case 0


✓ Test case 1 

✓ Test case 2 

✓ Test case 3 

✓ Test case 4 

✓ Test case 5 

✓ Test case 6 

Compiler Message

Success

Input (stdin)

[Download](#)

1

13

Expected Output

[Download](#)

1

prime

3. Java Map (Phonebook)

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

Accepted Answer:

Submitted Code


Language: Java 8


```
1 //Complete this code or write your own from scratch
2 import java.util.*;
3 import java.io.*;
4
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();
13        in.nextLine();
14
15        for(int i=0;i<n;i++)
16        {
17            String name=in.nextLine();
18            int phone=in.nextInt();
19            maps.put(name, String.valueOf(phone));
20            in.nextLine();
21        }
22        while(in.hasNext())
23        {
24            String s=in.nextLine();
25            if (maps.get(s)==null){
26                System.out.println("Not found");
27            } else {
28                System.out.println(s+"="+maps.get(s));
29            }
30        }
31    }
32 }
```

✓ Test case 0

✓ Test case 1 

✓ Test case 2 

✓ Test case 3 

✓ Test case 4 

2 `uncle sam`

3 `99912222`

4 `tom`

5 `11122222`

6 `harry`

7 `12299933`

8 `uncle sam`

9 `uncle tom`

10 `harry`

Expected Output

[Download](#)

1 `uncle sam=99912222`

2 `Not found`

3 `harry=12299933`

4. Java Sort

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


Accepted Answer:


Submitted Code


Language: Java 8


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


✓ Test case 0


✓ Test case 1 

✓ Test case 2 

✓ Test case 3 

✓ Test case 4 

✓ Test case 5 

✓ Test case 6 

Input (stdin)

[Download](#)

```
1 5
2 33 Rumpa 3.68
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
5 Rumpa
```

5. Java Exception-Handling (Try Catch)

Link: <https://www.hackerrank.com/challenges/java-exception-handling-try-catch/problem>
Q:

Accepted Answer:

Submitted Code

Language: Java 8 [Open in editor](#)

```
6 public static void main(String[] args) {
7     /* 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);
10        int x = sc.nextInt();
11        int y = sc.nextInt();
12        int z = x/y;
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);
20    } catch (InputMismatchException ime){
21        System.out.println(ime.getClass().getName());
22    } catch (Exception e){
23        System.out.println(e);
24    }
25 }
26 }
27 }
```

✔ Test case 0

✔ Test case 1

✔ Test case 2

✔ Test case 3

✔ Test case 4

✔ Test case 5

✔ Test case 6

Compiler Message

Success

Input (stdin) [Download](#)

1	10
2	3

Expected Output [Download](#)

1	3
---	---

Test case 0

Test case 1

Test case 2

Test case 3

Test case 4

Test case 5

Test case 6

Compiler Message

Success

Input (stdin)

Download

1	10
2	Hello

Expected Output

Download

1	java.util.InputMismatchException
---	----------------------------------

Test case 0

Test case 1

Test case 2

Test case 3

Test case 4

Test case 5

Test case 6

Compiler Message

Success

Input (stdin)

Download

1	10
2	0

Expected Output

Download

1	java.lang.ArithmeticException: / by zero
---	--

6. Java Reflection

Link: <https://www.hackerrank.com/challenges/java-reflection-attributes/problem>Q:

Accepted Answer:

Submitted Code

Language: Java 7

```
84 public class Solution {  
85  
86     public static void main(String[] args){  
87         Class student = Student.class;  
88         Method[] methods = student.getDeclaredMethods();  
89  
90         ArrayList<String> methodList = new ArrayList<>();  
91         for(Method mtd : methods){  
92             methodList.add(mtd.getName());  
93         }  
94         Collections.sort(methodList);  
95         for(String name: methodList){  
96             System.out.println(name);  
97         }  
98     }  
99 }
```

✓ Test case 0

Compiler Message

Success

🔒 Hidden Test Case

Unlock this testcase for 5 hackos.

Unlock

7. Java Method Overriding

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

Accepted Answer:

Submitted Code

Language: Java 8

```
20
21
22 // Write your overridden getNumberOfTeamMembers method here
23 @Override
24 void getNumberOfTeamMembers(){
25     System.out.println("Each team has 11 players in " + getName());
26 }
27
```

✓ Test case 0

Compiler Message

Success

Expected Output

[Download](#)

```
1 Generic Sports
2 Each team has n players in Generic Sports
3 Soccer Class
4 Each team has 11 players in Soccer Class
```

8. Java Generics

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

Accepted Answer:

Submitted Code

Language: Java 7

```
6
7
8 class Printer
9 {
10     //Write your code here
11     public static <E> void printArray(E[] inputArr){
12         for (E i:inputArr){
13             System.out.println(i);
14         }
15     }
16
17 }
18
```

✓ Test case 0

Compiler Message

Success

Expected Output

[Download](#)

```
1 1
2 2
3 3
4 Hello
5 World
```