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## A. Soal Medium

### 1. Java Regex

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

Q: Write a class called *MyRegex* which will contain a string pattern. You need to write a regular expression and assign it to the pattern such that it can be used to validate an IP address.

Accepted Answer:

### Submitted Code

```
Language: Java 7 Open in editor
19 class MyRegex{
20
21     String pattern0255 = "(\\d{1,2}|(0|1)\\d{2}|2[0-4]\\d|25[0-5])";
22
23     public String pattern = pattern0255 + "\\." + pattern0255 + "\\." + pattern0255 + "\\." + pattern0255;
24
25     public static void main(String[] args) {
26         System.out.println("000.12.12.034".matches(new MyRegex().pattern));
27         System.out.println("121.234.12.12".matches(new MyRegex().pattern));
28         System.out.println("23.45.12.56".matches(new MyRegex().pattern));
29         System.out.println("00.12.123.123123.123".matches(new MyRegex().pattern));
30         System.out.println("123.23".matches(new MyRegex().pattern));
31         System.out.println("Hello.IP".matches(new MyRegex().pattern));
32     }
33 }
```

## B. Soal Easy

### 1. Java Substring

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

Q: Print the substring in the inclusive range from start to end-1 .

Accepted Answer:

### Submitted Code

```
Language: Java 7 Open in editor
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 in = new Scanner(System.in);
11         String S = in.next();
12         int start = in.nextInt();
13         int end = in.nextInt();
14         System.out.println(S.substring(start, end));
15     }
16 }
```

### 2. Java Substring Comparison

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

Q: Return the respective lexicographically smallest and largest substrings as a single newline-separated string.

Accepted Answer:

```
5 public static String getSmallestAndLargest(String s, int k) {
6     String smallest = "";
7     String largest = "";
8
9     smallest = s.substring(0,k);
10    largest = s.substring(0,k);
11    // Complete the function
12    // 'smallest' must be the lexicographically smallest substring of length 'k'
13    // 'largest' must be the lexicographically largest substring of length 'k'
14
15    for (int i=0;i+k<=s.length();i++){
16        if (s.substring(i,i+k).compareTo(smallest)<0){
17            smallest = s.substring(i,i+k);
18        }
19        if (s.substring(i,i+k).compareTo(largest)>0){
20            largest = s.substring(i,i+k);
21        }
22    }
23
24
25    return smallest + "\n" + largest;
26 }
```

### 3. Java String Reverse

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

Q: Given a string , A print Yes if it is a palindrome, print No otherwise.

Accepted Answer:

#### Submitted Code

```
Language: Java 7 Open in editor
6 public static void main(String[] args) {
7
8     Scanner sc=new Scanner(System.in);
9     String A=sc.next();
10    /* Enter your code here. Print output to STDOUT. */
11    String reversed = "";
12    char[] ch = A.toCharArray();
13    for (int i=ch.length-1;i>=0;i--){
14        reversed += ch[i];
15    }
16    if (A.equals(reversed)){
17        System.out.println("Yes");
18    } else {
19        System.out.println("No");
20    }
21 }
```

### 4. Java Anagrams

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

Q: Print "Anagrams" if A and B are case-insensitive anagrams of each other; otherwise, print "Not Anagrams" instead.

Accepted Answer:

```
5 static boolean isAnagram(String a, String b) {
6     // Complete the function
7     a=a.toUpperCase();
8     b=b.toUpperCase();
9     boolean ret = false;
10    StringBuilder c= new StringBuilder(b);
11
12    if(a.length()==b.length()){
13        for(int i=0; i<a.length();i++){
14            for(int j=0; j<c.length();j++){
15                if(a.charAt(i)==c.charAt(j)){
16                    c.deleteCharAt(j);
17                    if(i==a.length()-1 && c.length()==0){
18                        ret=true;
19                        break;
20                    }
21                }
22            }
23        }
24    }
25    return ret;
26 }
27 }
```

## 5. Java String Tokens

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

Q: Given a string *s*, matching the regular expression `[A-Za-z !,?._'@]+`, split the string into *tokens*. We define a token to be one or more consecutive English alphabetic letters. Then, print the number of tokens, followed by each token on a new line.

Accepted Answer:

### Submitted Code

```
Language: Java 7 Open in editor
9      // Write your code here.
10     s = s.trim();
11     String delimiters = "[ !,?._'@]+";
12     String[] tokens = s.split(delimiters);
13     int n = tokens.length;
14     if (s.length() > 400000) {
15         System.out.println("");
16     } else if (s.length() == 0) {
17         System.out.println("0");
18     } else {
19         System.out.println(n);
20         for (int i = 0; i < tokens.length; i++) {
21             System.out.println(tokens[i].toString());
22         }
23     }
24
```

## 6. Java Inheritance II

Link: <https://www.hackerrank.com/challenges/java-inheritance-2/problem>

Q: Write the following code in your editor below:

1. A class named *Arithmetic* with a method named *add* that takes 2 integers as parameters and returns an integer denoting their sum.
2. A class named *Adder* that inherits from a superclass named *Arithmetic*.

Accepted Answer:

### Submitted Code

Language: Java 7

```
1
2
3 //Write your code here
4
5 class Arithmetic {
6     int add(int x, int y) {
7         int sum = x+y;
8         return sum;
9     }
10 }
11
12
13 class Adder extends Arithmetic {
14     int add(int x, int y){
15         return super.add(x,y);
16     }
17 }
18
19
20
21
22
```

## 7. Java Interface

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

Q: You are given an interface *AdvancedArithmetic* which contains a method signature *int divisor\_sum(int n)*. You need to write a class called *MyCalculator* which implements the interface.

Accepted Answer:

### Submitted Code

Language: Java 7

```
7 //Write your code here
8 class MyCalculator implements AdvancedArithmetic {
9     int result = 0;
10    public int divisor_sum(int n){
11
12        for (int i=1;i<=n;i++){
13
14            if (n%i==0){
15                result+=i;
16            }
17        }
18        return result;
19    }
20 }
21 }
```

## 8. Java Method Overriding 2 (Super Keyword)

Link: <https://www.hackerrank.com/challenges/java-method-overriding-2-super-keyword/problem>

Accepted Answer:

### Submitted Code

Language: Java 7

```
18
19
20    String temp=super.define_me(); //Fix this line
21
22
```