

DAILY ONLINE ACTIVITIES SUMMARY

Date:	18/05/2020	Name:	Pragathi h d
Sem & Sec	8 sem B sec	USN:	4AL16CS066
Online Test Summary			
Subject	SMS		
Max. Marks	60	Score	44
Certification Course Summary			
Course	Introduction to ethical hacking		
Certificate Provider	Great Learning	Duration	6.00hrs
Coding Challenges			
Problem Statement: java coding problem			
Status: Solved			
Uploaded the report in Github		Uploaded	
If yes Repository name		Pragathijain	
Uploaded the report in slack		yes	

Online Test Details: (Attach the snapshot and briefly write the report for the same)

Certification Course Details: (Attach the snapshot and briefly write the report for the same)

Coding Challenges Details: (Attach the snapshot and briefly write the report for the same)

Online coding

We have a Letter or a word then we need add some letters to it and need to find out shortest palindrome

For example we take "S": S will be the shortest palindrome string.

If we take "xyz": zyxyz will be the shortest palindrome string

So we need to add some characters to the given string or character and find out what will be the shortest palindrome string by using simple java program.

Write a simple code to identify given linked list is palindrome or not by using stack.

First take a Stack. Traverse through each node of the linked list and push each node value to Stack.

Once the traversal & copying is done, iterate through linked list from head node again.

In each iteration, pop one stack element and compare with node value in respective iteration. It is expected to match stack popped value with node value.

In case of all matches, its a palindrome. Any one element mismatch makes it not a palindrome.

```
package shortestpalindromeexample.java;  
import java.util.Scanner;
```

```
public class ShortestPalindromeDemo {
```

```
    public static String shortestPalindrome(String str) {
```

```
        int x=0;  
        int y=str.length()-1;
```

```
        while(y>=0){  
            if(str.charAt(x)==str.charAt(y)){  
                x++;  
            }  
            y--;  
        }
```

```
        if(x==str.length())  
            return str;
```

```
        String suffix = str.substring(x);  
        String prefix = new StringBuilder(suffix).reverse().toString();  
        String mid = shortestPalindrome(str.substring(0, x));
```

```
        return prefix+mid+suffix;  
    }
```

```
    public static void main(String[] args) {
```

```
Scanner in = new Scanner(System.in);

System.out.println("Enter a String to find out shortest palindrome");

String str=in.nextLine();

System.out.println("Shortest palindrome of "+str+" is "+shortestPalindrome(str));

}
```

```
import java.util.Stack;
class Node {
int data;
Node next;
Node(int i)
{
this.data = i;
this.next = null;
}
};
```

```
class Main
{
```

```
public static boolean isPalindrome(Node head)
{

    Stack<Integer> s = new Stack<>();

    Node node = head;
    while (node != null) {
        s.push(node.data);
        node = node.next;
    }

    node = head;
    while (node != null)
    {

        int top = s.pop();

        if (top != node.data) {
            return false;
        }

        // advance to the next node
        node = node.next;
    }
}
```

```
        return true;
    }

    public static void main(String[] args)
    {
        Node head = new Node(1);
        head.next = new Node(2);
        head.next.next = new Node(3);
        head.next.next.next = new Node(2);
        head.next.next.next.next = new Node(1);

        if (isPalindrome(head)) {
            System.out.print("Linked List is a palindrome.");
        } else {
            System.out.print("Linked List is not a palindrome.");
        }
    }
}
```

Online test

Hi Pragathi H D,

You have scored **44 marks** in **MCQ**.

[See Assessment](#)

About The Assessment



SMS_I_IA Enhanced Clone at 2020-05-18 10:47:27



Round 1 ends on: 18 May, 2020 (1 Hour)

Warm Regards,
TechGig Team

Certificate course

5/20/2020



Introduction to Ethical Hacking - Great Learning



 



Introduction to Ethical Hacking



CONTENTASSESSMENTS



Learning Videos



 Career and Growth Ladder in Ethical Hacking18m

 Domains and Process Implementation under Ethical Hacking54m



 Ethical Hacking in Network Architecture-Demonstration48m

 Ethical Hacking in Web Applications-Demonstration50m


 Ethical Hacking on Mobile Platforms-Demonstration34m

 What Is Ethical Hacking50m

Quiz

 Ethical Hacking - Quiz

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