

DAILY ONLINE ACTIVITIES SUMMARY

Date:	18-06-2020	Name:	Nanditha.R.Shetty
Sem & Sec	6 th sem, 'A' sec	USN:	4AL17CS054
Online Test Summary			
Subject	Programming in C		
Max. Marks		Score	
Certification Course Summary			
Course	Workshop on "Applications of Python Programming in DA and ML"		
Certificate Provider	-	Duration	-
Coding Challenges			
Problem Statement: 1 Java and 1 C program			
Status: executed			
Uploaded the report in GitHub		Yes	
If yes Repository name		https://github.com/nandithashetty/DAILY-STATUS	
Uploaded the report in slack		Yes	

Online Test Details:

Programming in C

Quiz-5

Quiz-5

Total points

5/5

?

NAME *

Nanditha.R.Shetty

USN *

4AL17CS054

✓

What is the output of the program? *

1/1

```
#include <stdio.h>
```

☆

Quiz-6

↺

Quiz-6

Total points

4/5

?

NAME *

Nanditha.R.Shetty

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4AL17CS054

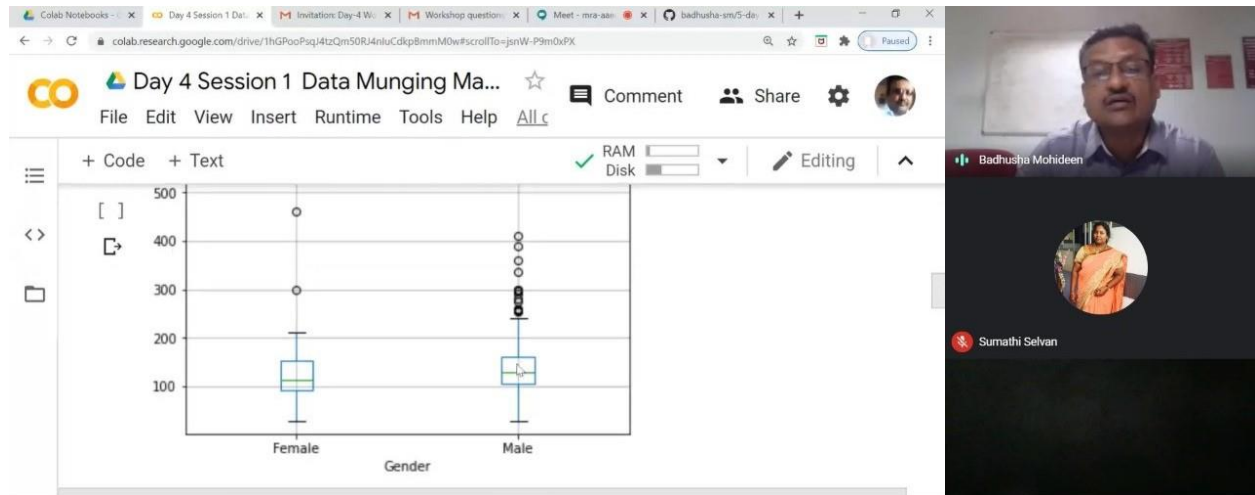
✗

what is the output for the program? *

.../1

```
#include <stdio.h>
void main()
{
```

Workshop Details:



Coding Challenges Details:

Program 1

This is output of java program to check if a binary tree is binary search tree(BST) or not.

The screenshot shows an online Java compiler interface. The code is as follows:

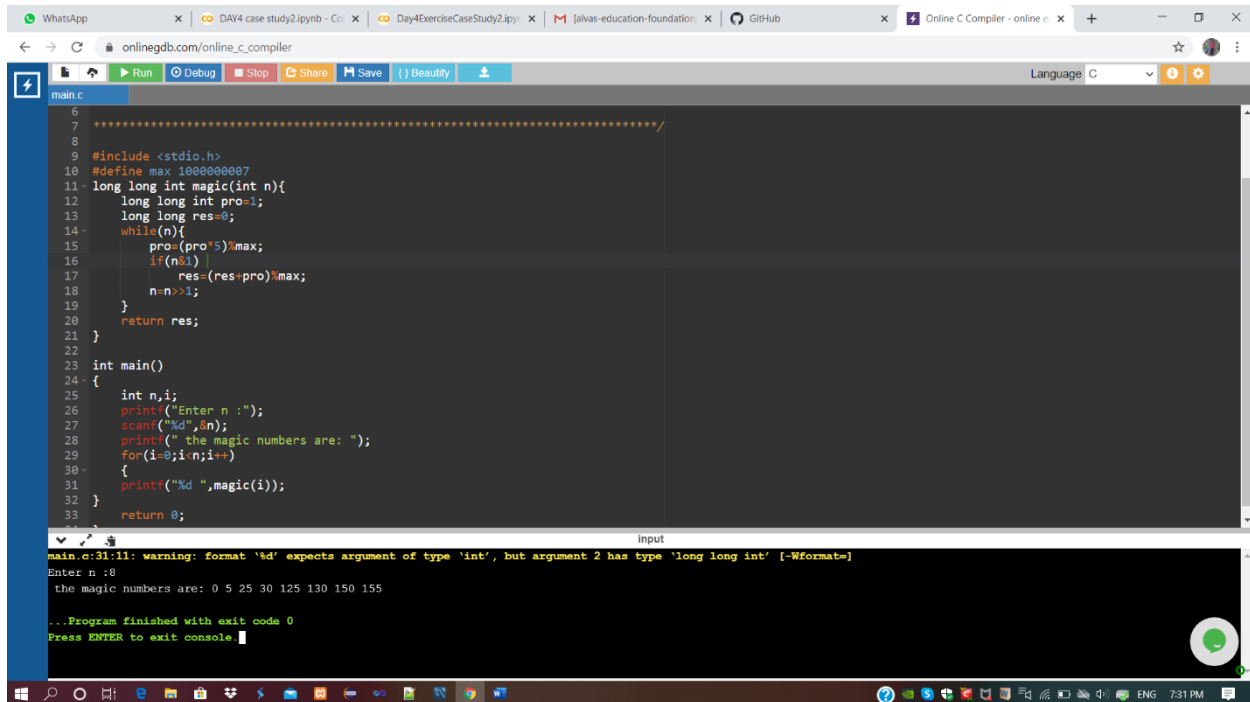
```
1 class Main
2 {
3     static class Node
4     {
5         int data;
6         Node left, right;
7     };
8     static boolean isBST(Node root, Node l, Node r)
9     {
10         if (root == null)
11             return true;
12         if (l != null && root.data <= l.data)
13             return false;
14         if (r != null && root.data >= r.data)
15             return false;
16         return isBST(root.left, l, root) &&
17                isBST(root.right, root, r);
18     }
19     static Node newNode(int data)
20     {
21         Node node = new Node();
22         node.data = data;
23         node.left = node.right = null;
24         return (node);
25     }
26     public static void main(String args[])
27     {
28         Node root = newNode(2);
29     }
30 }
```

The output of the program is:

```
Input
Not a BST
...Program finished with exit code 0
Press ENTER to exit console.
```

Program 2

This is the output of C program to generate first N Magic Numbers.



The screenshot shows a web browser with multiple tabs, including 'onlinegdb.com/online_c_compiler'. The compiler interface displays a C program in a dark-themed editor. The code defines a function 'magic' that calculates the next magic number by multiplying the previous one by 3 and adding 1, ensuring it stays within a defined maximum. The 'main' function prompts the user for a value 'n' and prints the first 'n' magic numbers. The output window shows a warning about a format specifier, followed by the input '8' and the resulting sequence of magic numbers: 0, 5, 25, 30, 125, 130, 150, and 155. The program finishes with an exit code of 0.

```
main.c
6
7 *****
8
9 #include <stdio.h>
10 #define max 1000000007
11 long long int magic(int n){
12     long long int pro=1;
13     long long res=0;
14     while(n){
15         pro=(pro*3)%max;
16         if(n%1){
17             res=(res+pro)%max;
18             n=n>>1;
19         }
20         return res;
21     }
22 }
23
24 int main()
25 {
26     int n,i;
27     printf("Enter n :");
28     scanf("%d",&n);
29     printf(" the magic numbers are: ");
30     for(i=0;i<n;i++)
31     {
32         printf("%d ",magic(i));
33     }
34     return 0;
35 }
```

main.c:31:11: warning: format '%d' expects argument of type 'int', but argument 2 has type 'long long int' [-Wformat=]
Enter n :8
the magic numbers are: 0 5 25 30 125 130 150 155
...Program finished with exit code 0
Press ENTER to exit console.

Refer GitHub for detailed Information:

<https://github.com/nandithashetty/DAILY-STATUS/tree/master/18-06-2020/ONLINE%20CODING>

Workshop on “Applications of Python Programming in DA and ML”

Today’s exercise uploaded in :

<https://github.com/nandithashetty/Applications-of-Python-Programming-in-DA-and-ML>

This Report is also available in:

<https://github.com/nandithashetty/DAILY-STATUS/tree/master/18-06-2020>