

Question 1 Revisit Later**How to Attempt?****Return the modified sentence**

Write a program that forms a new sentence upon taking an input String as per the below algorithm.

- Shift the alphabets N number of times in FORWARD-mode, where N is the length of a particular word in the given String.

Example:**Input:** Hi Hell**Output:** Jk Lipp**Explanation:** H and i in the word "Hi" is shifted 2 times forward as the length of "Hi" is 2.

All the alphabets in the word "Hell" are shifted 4 times forward as the length of "Hell" is 4.

- If the alphabet reaches the end of the series, then it should be replaced with z or Z depending on its case.

Example:**Input:** ABCDX**Output:** FGHEZ**Explanation:** When the last alphabet X needs to be shifted 5 times forward but the alphabets end at Z, X is replaced by Z.

- String may contain lowercase and uppercase letters, which needs to be replaced in respective cases.

Prototype: String returnTheModifiedSentence(String input1)**Few more examples:****Input:** GO iNDiA**Output:** IQ nSiNH**Input:** EXam Time**Output:** IZeq Xmqi Use Custom Input[Code Execution](#) [Code History](#)

0/8 - Graded Test Cases Failed

• Testcase-1

• Testcase-2

• Testcase-3

• Testcase-4

• Testcase-6

• Testcase-5

• Testcase-7

• Testcase-8

1. Section #1

1

1

2

3

Attempted: 1/1

Question 1 Revisit Later[Code Execution](#) [Code History](#)**How to Attempt?**

0/8 - Graded Test Cases Failed

Total Occurrence

Given two integer numbers input1 and input2, find the total number of occurrences of input1 in a series of natural numbers from 0 till input2.

Note:

1. input1 will be within 1 – 9 and
1. input2 will be within 1 – 100.

Prototype: public int findTotalOccurrence(int input1, int input2)**Example 1:**

input1 = 2
input2 = 20
output = 3

Explanation: Number 2 is repeated 3 times in the series of natural numbers from 0 – 20.
i.e. at 2, 12, 20.

Example 2:

input1 = 2
input2 = 30
output = 13

Explanation: Number 2 is repeated 13 times in the series of natural numbers from 0 – 30 i.e. at 2, 12, 20, 21, 22 (occurred twice), 23, 24, 25, 26, 27, 28, 29.

 Testcase-1 Testcase-2 Testcase-3 Testcase-4 Testcase-5 Testcase-6 Testcase-7 Testcase-8

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Code Execution **Code History**

0/8 - Graded Test Cases Failed

 Testcase-1 Testcase-2 Testcase-3 Testcase-4 Testcase-6 Testcase-5 Testcase-7 Testcase-8

Prototype: String returnTheModifiedSentence(String input1)

Few more examples:

Input1: GO INDIA
Output: IQ nSINh

Input1: EXam TimE
Output: IZq XMqI

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2. Section #2

Attempted: 1/1

Question 1

Revisit Later

How to Attempt?

Average RoundOff :

Given an integer array as input. Find the average of all the elements. If the final result has decimal points, then round it off to the nearest integer.

After decimal, if the immediate digit is between 1-5, ignore the decimal part of the number and return the integer.

If the digit is between 6-9, round it off to next integer.

Prototype: int findAverageRoundOff(int[] input1, int input2);

Example 1 : input1[] = {9,11,14,15}, input2 = 5

Solution: $9+11+14+15 = 55$
 $55/5 = 11$

Result: 11 (actual result is 11.4, rounding off to the nearest integer will give us 11)

Example 2 : input1[] = {1,2,3,4,5,6,7,8,9,10}, input2 = 10

Solution: Sum is 55
Avg is $55/10 = 5.5$

Result: 5 (No need to round off)

Example 3 : input1[] = {6,9,12,23,34}, input2 = 5

Solution: Sum is 84
Avg is $84/5 = 16.8$

Result: 17 (actual result is 16.8, rounding off to the nearest integer will give us 17)

Use Custom Input

Code Execution Code History

0/5 - Graded Test Cases Failed

Testcase-1

Testcase-2

Testcase-3

Testcase-4

Testcase-5

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2. Section #2

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Question 1

Revisit Later

How to Attempt?

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Use Custom Input

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Testcase-1

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Instructions

Sections

01. Pseudocode

03 / 03 completed

(Q) IT Fundamentals

L2 / 12 completed

Q 03. What will be the output of the following pseudo code for a=6, b=7, c=9?

```
1. Integer funn(Integer a, Integer b, Integer c)
2.     for(each c from 3 to 6
3.         a=b*c
4.         if((a-b)<(c-a))
5.             b=(3838)*a
6.         else
7.             Continue
8.         End If
9.     b=(1-c)*a
10.    End for
11.    return a+b
```

Note: Continue: When a continue statement is encountered, it skips the execution of statements in the body of the loop for the current iteration.

1

01.

02.

01. Product of numbers

Problem Statement

You are given an integer n . Find and print the product of all the numbers from 1 to n .

Note: Computed value lies within the integer range.

Input Format:

The test case consists of a single line of input:

- The line contains a single integer, i.e. n .

Input will be read from the STDIN by the candidate

Output Format:

Print the product of all the numbers from 1 to n .

The output will be matched to the candidate's output printed on the STDOUT

Constraints:

$0 < n < 13$

Example:

Input:

5

Output:

120

Explanation:

For input 5, the output is $1 \times 2 \times 3 \times 4 \times 5 = 120$.

Sample input

4

1

02. Special String

01.

02.

Problem Statement

A string is called special if it can be written as the concatenation of two non-empty strings ' s_1 ' and ' s_2 ' such that ' s_1 ' contains all characters equal to 'a', and ' s_2 ' contains all characters equal to 'b'.

You are provided with T test cases and for each test case, you are provided with string s . Your task is to find and print the number of special strings.

Note:

- Each string contains only lowercase characters.

Input Format:

The input is given in the following format:

- The first line contains T .
- Each of the T subsequent lines contains string s .

The input will be read from the STDIN by the candidate

Output Format:

Print the number of special strings.

The output will be matched to the candidate's output printed on the STDOUT

Constraints:

- $1 \leq T \leq 100$.
- $1 \leq \text{string length} \leq 5000$.

Example:

Input:

4

ab

xyz

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C Programming

1. Which one of the following is correct syntax for opening a file.

- a) FILE *fopen(const *filename, const char *mode)
- b) FILE *fopen(const *filename)
- c) FILE *open(const *filename, const char *mode)
- d) FILE open(const*filename)

Answer: a

Explanation: fopen() opens the named file, and returns a stream, or NULL if the attempt fails.

2. What will be the output of the following C code?

```
1. #include <stdio.h>
2. int main()
3. {
4.     int x = 97;
5.     switch (x)
6.     {
7.         case 'a':
8.             printf("yes ");
9.             break;
10.        case 97:
11.            printf("no\n");
12.            break;
13.    }
14. }
```

- a) yes
- b) yes no
- c) Duplicate case value error
- d) Character case value error

Answer: c

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CPP

- 3.** What are the advantages of passing arguments by reference?
 - a) Changes to parameter values within the function also affect the original arguments
 - b) There is need to copy parameter values (i.e. less memory used)
 - c) There is no need to call constructors for parameters (i.e. faster)
 - d) All of the mentioned

Answer: d

Explanation: All the above mentioned are advantages and properties of call by reference.

- 4.** Which header file is required to use any container?
 - a) <any>
 - b) <stl>
 - c) <container-any>
 - d) <containers>

Answer: a

Explanation: <any> header file is required to use any container and its realted functions.

Java

- 5.** What will be the output of the following Java code?

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```
1. import java.util.*;
2. class stack
3. {
4.     public static void main(String args[])
5.     {
6.         Stack obj = new Stack();
7.         obj.push(new Integer(3));
8.         obj.push(new Integer(2));
9.         obj.pop();
10.        obj.push(new Integer(5));
11.        System.out.println(obj);
12.    }
13. }
```

- a) [3, 5]
- b) [3, 2]
- c) [3, 2, 5]
- d) [3, 5, 2]

Answer: a

Explanation: push() and pop() are standard functions of the class stack, push() inserts in the stack and pop removes from the stack. 3 & 2 are inserted using push() the pop() is used which removes 2 from the stack then again push is used to insert 5 hence stack contains elements 3 & 5.

Output:

```
$ javac stack.java
$ java stack
[3, 5].
```

6. What is the remaining capacity of BlockingQueue whose intrinsic capacity is not defined?
- a) Integer.MAX_VALUE
 - b) BigDecimal.MAX_VALUE

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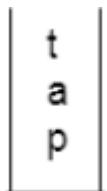
- c) 99999999
- d) Integer.INFINITY

Answer: a

Explanation: A BlockingQueue without any intrinsic capacity constraints always reports a remaining capacity of Integer.MAX_VALUE.

Data Structures

7. What will be result if the given stack is popped?



- a) pat
- b) tap
- c) atp
- d) apt

Answer: b

Explanation: The word 'pat' is pushed on to the stack. When the characters of the stack are popped one by one, the word 'tap' is obtained.

8. What is wrong with below code for inorder traversal of inorder threaded binary tree:

```
inordertraversal(threadedtreenode root):
    threadedtreenode q = inorderpredecessor(root)
    while(q!=root):
        q=inorderpredecessor(q)
        print q.data
```

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- a) inorder successor instead of inorder predecessor must be done
- b) code is correct
- c) it is code for post order
- d) it is code for pre order

Answer: a

Explanation: Property of inorder threaded binary tree is left node with inorder predecessor and right node with inorder successor information are stored.

9. What does the following function do for a given Linked List with first node as head?

```
void fun1(struct node* head)
{
    if(head == NULL)
        return;
    fun1(head->next);
    printf("%d  ", head->data);
}
```

- a) Prints all nodes of linked lists
- b) Prints all nodes of linked list in reverse order
- c) Prints alternate nodes of Linked List
- d) Prints alternate nodes in reverse order

Answer: b

Explanation: fun1() prints the given Linked List in reverse manner.
For Linked List 1->2->3->4->5, fun1() prints 5->4->3->2->1.

Java

10. What will be the output of the following Java program?

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```
1.  class Output
2.  {
3.      public static void main(String args[])
4.      {
5.          ArrayList obj = new ArrayList();
6.          obj.add("A");
7.          obj.add("D");
8.          obj.ensureCapacity(3);
9.          obj.trimToSize();
10.         System.out.println(obj.size());
11.     }
12. }
```

- a) 1
- b) 2
- c) 3
- d) 4

Answer: b

Explanation: trimToSize() is used to reduce the size of the array that underlines an ArrayList object.

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Output:

```
$ javac Output.java
$ java Output
2
```

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C Programming

1. What will be the output of the following C code?

```
1.     #include <stdio.h>
2.     int main()
3.     {
4.         char buf[12];
5.         stderr = stdin;
6.         fscanf(stderr, "%s", buf);
7.         printf("%s\n", buf);
8.     }
```

- a) Compilation error
- b) Undefined behaviour
- c) Whatever user types
- d) None of the mentioned

Answer: c

2. What will be the output of the following C code if the current system date is 6/22/2017?

```
#include<stdio.h>
#include<stdlib.h>
#include<time.h>
int main()
{
    time_t ct;
    time(&ct);
    struct tm *mt=localtime(&ct);
    printf("%d\n",mt-> tm_mon+2);
}
```

- a) 8
- b) 7
- c) 5
- d) 6

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Answer: b

Explanation: Since the given date is 22nd of June, 2017. Since June is the sixth month of the year, the output will be 5. (0-Jan, 1-Feb, 2-March, 4-April, 5-May, 6-June.....)

3. What will be the output of the following C code?

```
1. #include <stdio.h>
2. #include <math.h>
3. int main()
4. {
5.     int i = 10;
6.     printf("%f\n", log10(i));
7.     return 0;
8. }
```

- a) Compile time error
- b) 1.000000
- c) 2.302585
- d) None of the mentioned

Answer: b

CPP

4. What will be the output of the following C++ code?

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```
1. #include <iostream>
2. using namespace std;
3. int operate (int a, int b)
4. {
5.     return (a * b);
6. }
7. float operate (float a, float b)
8. {
9.     return (a / b);
10.}
11. int main ()
12. {
13.     int x = 5, y = 2;
14.     float n = 5.0, m = 2.0;
15.     cout << operate (x, y);
16.     cout << operate (n, m);
17.     return 0;
18. }
```

- a) 119
- b) 102.5
- c) 123.4
- d) 128.4

Answer: b

Explanation: In this program, We are overloading the function and getting the output as 10 and 2.5 by division and multiplication.

Output:

```
$ g++ call3.cpp
$ a.out
102.5
```

5. What does this template function indicates?

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```
=====
template<class T>
void func(T a)
{
    cout<<a;
}
=====
```

- a) A function taking a single generic parameter and returning a generic type
- b) A function taking a single generic parameter and returning nothing
- c) A function taking single int parameter and returning a generic type
- d) A function taking a single generic parameter and returning a specific non-void type

Answer: b

Explanation: As the return type of function is void therefore function is not returning anything. Now as the function is taking a template T as its argument which is a general type, therefore, it is accepting a single general type argument.

Java

6. In the following Java code, which code fragment should be inserted at line 3 so that the output will be: “123abc 123abc”?

```
1. StringBuilder sb1 = new StringBuilder("123");
2. String s1 = "123";
3. // insert code here
4. System.out.println(sb1 + " " + s1);
```

- a) sb1.append("abc"); s1.append("abc");
- b) sb1.append("abc"); s1.concat("abc");
- c) sb1.concat("abc"); s1.append("abc");
- d) sb1.append("abc"); s1 = s1.concat("abc");

Answer: d

Explanation: append() is StringBuffer method and concat is String class method. append() is StringBuffer method and concat is String class method.

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7. What will be the output of the following Java code?

```
1.     class Output
2.     {
3.         public static void main(String args[])
4.         {
5.             double x = 3.14;
6.             int y = (int) Math.abs(x);
7.             System.out.print(y);
8.         }
9.     }
```

- a) 0
- b) 3
- c) 3.0
- d) 3.1

Answer: b

Data Structures

8. What is the time complexity of the following code?

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```
public boolean isBalanced(String exp)
{
    int len = exp.length();
    Stack<Integer> stk = new Stack<Integer>();
    for(int i = 0; i < len; i++)
    {
        char ch = exp.charAt(i);
        if (ch == '(')
            stk.push(i);
        else if (ch == ')')
        {
            if(stk.peek() == null)
            {
                return false;
            }
            stk.pop();
        }
    }
    return true;
}
```

- a) O(logn)
- b) O(n)
- c) O(1)
- d) O(nlogn)

Answer: b

Explanation: All the characters in the string have to be processed, hence the complexity is O(n).

9. What is a time complexity for inserting an alphabet in the tree using hash maps?
- a) O ($\log n!$)
 - b) O ($n!$)
 - c) O (n^2)
 - d) O (1)

Answer: d

Explanation: Suffix tree is also known as PAT tree or position tree. It allows fast

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string operation. Total time taken for construction of suffix tree is linear to the length of the tree. The time complexity for inserting an alphabet in the tree using hash maps is constant, O (1).

CPP

10. What will be the output of the following C++ code?

```
1. #include <iostream>
2. #include <exception>
3. #include <cstdlib>
4. using namespace std;
5. void myterminate ()
6. {
7.     cerr << "terminate handler called";
8.     abort();
9. }
10. int main (void)
11. {
12.     set_terminate (myterminate);
13.     throw 0;
14.     return 0;
15. }
```

- a) terminate handler called
- b) aborted
- c) both terminate handler & Aborted
- d) runtime error

Answer: c

Explanation: In this program, We are using set_terminate to abort the program.

Output:

```
$ g++ uce2.cpp
$ a.out
terminate handler called
Aborted
```



Coding Questions

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Wipro NLTH

Wipro NLTH Coding Question-1

Question 1. There is a colony of 8 cells arranged in a straight line where each day every cell competes with its adjacent cells (neighbour). Each day, for each cell, if its neighbours are both active and both inactive, the cell becomes inactive the next day, otherwise it becomes active the next day. Assumptions: The two cells on the ends have single adjacent cell, so the other adjacent cell can be assumed to be always inactive. Even after updating the cell state. Consider its previous state for updating the state of other cells. Update the cell information of all cells simultaneously. Write a function cell Compete which takes one 8 element array of integer's cells representing the current state of 8 cells and one integer days representing the number of days to simulate. An integer value of 1 represents an active cell and value of 0 represents an inactive cell. Existing Program int* cellCompete(int* cells,int days)
{/ /write your code here
} //function signature ends

Test Cases

TESTCASES 1:

INPUT: [1,0,0,0,0,1,0,0],1

EXPECTED RETURN VALUE:

[0,1,0,0,1,0,1,0]

TESTCASE 2:

INPUT: [1,1,1,0,1,1,1,1],2

EXPECTED RETURN VALUE: [0,0,0,0,0,1,1,0]

C++

```
#include<bits/stdc++.h>
using namespace std;
int* cellCompete(int cells[8], int days)
{
    int temp[8];    int
    i=0,j=0;
    for(j=0;j<days;j++)
    {
        temp[0]=cells[1]^0;
        for(i=1;i<7;i++)
            temp[i]=cells[i-1]^cells[i+1];
        temp[i]=cells[i-1]^0;

        for(i=0;i<8;i++)
            cells[i]=temp[i];
    }
    return cells;
}
int main()
{
    int cells[8],days;
    for(int i=0;i<8;i++)
        cin>>cells[i];    cin>>days;
    cellCompete(cells,days);

    for(int i=0;i<8;i++)
        cout<<cells[i]<<" ";
    return 0;
}
```

Java

```
import java.util.*;
class Main
{
    public static int[] cellCompete (int cells[], int days)
    {
        int temp[] = new int[8];
        int i = 0, j = 0;

        for(j = 0; j < days; j++)
        {
            temp[0] = cells[1] ^ 0;

            for (i = 1; i < 7; i++)
                temp[i] = cells[i - 1] ^ cells[i + 1];
            temp[i] = cells[i - 1] ^ 0;

            for (i = 0; i < 8; i++)
                cells[i] = temp[i];
        }
        return temp;
    }

    public static void main (String[]args)
    {
        Scanner sc = new Scanner (System.in);
        int cells[] = new int[8];
```

```

        for(int i = 0; i < cells.length; i++)
            cells[i] = sc.nextInt();

        int days = sc.nextInt();
        int res[] = cellCompete (cells, days);
        for(int i = 0; i < res.length; i++)
            System.out.print (res[i] + " ");
    }
}

```

Wipro NLTH Coding Question-2

Ques: Mooshak the mouse has been placed in a maze. There is a huge chunk of cheese somewhere in the maze. The maze is represented as a two-dimensional array of integers, where 0 represents walls. 1 represents paths where Mooshak can move and 9 represents the huge chunk of cheese. Mooshak starts in the top left corner at 0.

Write a method isPath of class Maze Path to determine if Mooshak can reach the huge chunk of cheese. The input to isPath consists of a two dimensional array and for the maze matrix. The method should return 1 if there is a path from Mooshak to the cheese. And 0 if not Mooshak is not allowed to leave the maze or climb on walls.

Moshak can only move right or down.

EX: 8 by 8(8*8) matrix maze where Mooshak can get the cheese.

```

1 0 1 1 1 0 0 1
1 0 0 0 1 1 1 1
1 0 0 0 0 0 0 0
1 0 1 0 9 0 1 1
1 1 1 0 1 0 0 1
1 0 1 0 1 1 0 1

```

1 0 0 0 0 1 0 1

1 1 1 1 1 1 1 1

Test Cases:

Case 1:

Input: [[1,1,1],[9,1,1],[0,1,0]]

Expected return value :1

Explanation:

The piece of cheese is placed at (1,0) on the grid Mooshak can move from (0,0) to (1,0) to reach it or can move from (0,0) to (0,1) to (1,1) to (1,0) Test case 2:

Input: [[0,0,0],[9,1,1],[0,1,1]]

Expected return value: 0

Explanation:

Mooshak cannot move anywhere as there exists a wall right on (0,0)

Existing Program

/*include header files needed by your program

some library functionality may be restricted

define any function needed

function signature begins, this function is required*/ Int isPath(int **grid,int m,int n)

C++

```
#include <bits/stdc++.h>
using namespace std;
int n;
bool IsValid(int i,int j,vector<vector<int>> &arr,vector<vector<int>> &vis)
{
    if(i>=0 && i<n && j>=0 && j<n)
    if(vis[i][j]==0 && arr[i][j])
    {
        vis[i][j]=1;
        return 1;
    }
    return 0;
}
int main()
{
    cin>>n;
    vector<vector<int>> arr(n,vector<int>(n,0)),vis(n,vector<int>(n,0));
    for(int i=0;i<n;i++)
    for(int j=0;j<n;j++) cin>>arr[i][j];
    queue<pair<int,int>> q;
    if(IsValid(0,0,arr,vis))q.push({0,0});
    while(!q.empty())
    {
        pair<int,int> p=q.front();
        if(arr[p.first][p.second]==9) {cout<<1;return 0;}
        if(IsValid(p.first+1,p.second,arr,vis)) q.push({p.first+1,p.second});
        if(IsValid(p.first,p.second+1,arr,vis)) q.push({p.first,p.second+1});
    }
    cout<<0;
}
```

Java

```
import java.util.*;
class Main
{
    public static int hasPath(int[][]maze)
    {
        if(solve(maze,0,0))
            return 1;
        return 0;
    }
    public static boolean solve(int [][]maze, int i, int j){
        if(i<0 || j<0 || i>=maze.length || j>=maze.length || maze[i][j]==0)
            return false;
        if(maze[i][j]==9)
            return true;
        maze[i][j]=0;
        boolean op1,op2,op3,op4;
        op1 = solve(maze,i+1,j);
        op2 = solve(maze,i,j+1);
        op3 = solve(maze,i-1,j);
        op4 = solve(maze,i,j-1);
        maze[i][j] = 1;
        return (op1|| op2 || op3 || op4);
    }
}
```

```

public static void main(String[] args)
{
    Scanner sc=new Scanner(System.in);
    int n=sc.nextInt();
    int arr[][]=new int[n][n];
    for(int i=0;i<n;i++)
        for(int j=0;j<n;j++)
            arr[i][j]=sc.nextInt();
    System.out.println(hasPath(arr));
}

```

Wipro NLTH Coding Question- 3

The least recently used (LRU) cache algorithm evicts the element from the cache (when it's full) that was least recently used. After an element is requested from the cache, it should be added to the cache (if not already there) and considered the most recently used element in the cache.

Initially, the cache is empty. The input to the function LruCountMiss shall consist of an integer max_cache_size, an array pages and its length Len

The function should return an integer for the number of cache misses using the LRU cache algorithm.

Assume that the array pages always have pages numbered from 1 to 50.

TEST CASES:

TEST CASE1:

INPUT:

3,[7,0,1,2,0,3,0,4,2,3,0,3,2,1,2,0],16

EXPECTED RETURN VALUE:

11

TESTCASE 2:

INPUT:

2,[2,3,1,3,2,1,4,3,2],9

EXPECTED RETURN VALUE:

8

EXPLANATION:

The following page numbers are missed one after the other 2,3,1,2,1,4,3,2. This results in 8 page misses.

Existing Program

```
int lruCountMiss(int max_cache_size, int *pages,int len)
```

C++

```
#include <iostream>
using namespace std;

int Func(int a,int *arr,int n)
{
    unordered_map<int,int> m;
    int ans=0;
    for(int i=0;i<n;i++)
    {
        if(m[arr[i]]) {m.erase(arr[i]);m[arr[i]]++;}
        else
        {
            if(m.size()>a) {m.erase(arr[i-a]);}
            m[arr[i]]++; ans++;
        }
    }
    return ans;
}

int main()
{
    int a,n;
    cin>>a>>n;
    int arr[n];
    for(int i=0;i<n;i++) cin>>arr[i];
    cout<<Func(a,arr,n);
}
```

Wipro NLTH Coding Question- 4

Ques: Write a function to insert an integer into a circular linked _list whose elements are sorted in ascending order (smallest to largest). The input to the function insert Sorted List is a pointer start to some node in the circular list and an integer n between 0 and 100. Return a pointer to the newly inserted node...

The structure to follow for a node of the circular linked list is Struct CNode ;

Typedef struct CNode cnode;

Struct CNode

{I

nt value;

Cnode* next;

;C

node* insertSortedList (cnode* start,int n

/FUNCTION SIGNATURE ENDS

Test Case 1:

Input:

[3>4>6>1>2>^],5

Expected Return Value:

[5>6>1>2>3>4>^]

Test Case 2:

Input:

[1>2>3>4>5>^],0

Expected Return Value:

[0>1>2>3>4>5>^]

Given the maximum size of the cache and a list of integers (to request from the cache), calculate the number of cache misses using the LRU cache algorithm. A cache miss occur when the requested integer does not exist in the cache.

Wipro NLTH Coding Question- 5

Removal of vowel from string

C

```
#include<string.h>
int check_vowel (char);
int main ()
{
    char s[100], t[100];
    int i, j = 0;
    printf ("Enter a string to delete vowels\n");
    gets (s);
    for (i = 0; s[i] != '\0'; i++)
    {
        if (check_vowel (s[i]) == 0)
            //not a vowel
            t[j] = s[i];
            j++;
    }
    t[j] = '\0';
    strcpy (s, t);           //We are changing initial string
    printf ("String after deleting vowels: %s\n", s);
    return 0;
}

int check_vowel (char c)
{
    switch (c)
    {
```

```

        case 'a':
        case 'A':
        case 'e':
        case 'E':
        case 'i':
        case 'I':
        case 'o':
        case 'O':
        case 'u':
        case 'U':

            return 1;
        default:
            return 0;
    }
}

```

Java

```

import java.util.*;
class Main
{
    public static void main(String[] args)
    {
        Scanner sc=new Scanner(System.in);
        String str=sc.next();
        char arr[]=str.toCharArray();
        String res="";
        for(int i=0;i<str.length();i++)
        {
            if(arr[i]=='a'|| arr[i]=='A'|| arr[i]=='e'||arr[i]=='E'||arr[i]=='i'||arr[i]=='I'||arr[i]=='o'|| arr[i]=='O'||arr[i]=='u'||arr[i]=='U')
                continue;
            else
                res=res+arr[i];
        }
        System.out.println(res);
    }
}

```

Wipro NLTH Coding Question- 7

Ques: Eliminate repeated elements in Array.

java

```

import java.util.*;
class Main
{
    public static void main(String[] args)
    {
        Scanner sc=new Scanner(System.in);

        System.out.println("Enter array size:");
        int size=sc.nextInt();
        int i=0,j=0,k=0;
        System.out.println("Accept Numbers : ");
        int arr[]={};
        for (i = 0; i < size; i++)

```

```

arr[i]=sc.nextInt();

System.out.println("Array with Unique list : ");

for (i = 0; i < size; i++) {
    for (j = i + 1; j < size;) {
        if (arr[j] == arr[i]) {
            for (k = j; k < size-1; k++) {
                arr[k] = arr[k + 1];
            }
            size--;
        } else
            j++;
    }
    for (i = 0; i < size; i++) {
        System.out.print(arr[i]+" ");
    }
}
}

```

Wipro NLTH Coding Question- 18

Pythagorean Triplet in an array

Given an array of integers, write a function that returns true if there is a triplet (a, b, c) that satisfies $a^2 + b^2 = c^2$.

Example:

Input:

- 5 -> Size of Array
- 3 1 4 6 5 -> Elements of Array

Output :

- Yes

Explanation:

There is a pythagorean triplet(3,4,5).

Input :

- 5 -> Size of Array

- 10 4 6 12 5 -> Elements of array

Output :

No

Explanation:

There is no pythagorean triplet

java

```
import java.util.*;
class Main
{
    public static boolean isTriplet(int ar[], int n)
    {
        for (int i = 0; i < n; i++)
        {
            for (int j = i + 1; j < n; j++)
            {
                for (int k = j + 1; k < n; k++)
                {
                    // Calculate square of array elements
                    int x = ar[i] * ar[i], y = ar[j] * ar[j], z = ar[k] *
ar[k];
                    if (x == y + z || y == x + z || z == x + y)
                        return true;
                }
            }
        }
        // If we reach here, no triplet found
        return false;
    }

    public static void main(String [] args)
    {
        Scanner sc=new Scanner(System.in);
        int n=sc.nextInt();
        int arr[]=new int[n];

        for(int i=0;i<n;i++)
            arr[i]=sc.nextInt();

        if(isTriplet(arr,n))
            System.out.println("Yes");
        else
            System.out.println("No");
    }
}
```

Wipro NLTH Coding Question- 19

Problem Statement : Write a function that accepts a sentence as a parameter, and returns the same with each of its words reversed. The returned sentence should have 1 blank space between each pair of words. Example:

- **Parameter:** “jack and jill went up a hill”
- **Return Value:** “kcaj dna llij tnew pu a llih”

C
Java

```
import java.util.*;
class Main
{
    public static void main(String[] args)
    {
        Scanner s=new Scanner(System.in);
        System.out.println("Enter the sentence");
        String str=s.nextLine();

        String[] str2=str.split(" ");
        int l=str2.length;
        for(int i=0;i<l;i++)
        {
            StringBuffer sb=new StringBuffer(str2[i]);
            StringBuffer revstr = sb.reverse();
            System.out.print(revstr+" ");
        }
    }
}
```

Wipro NLTH Coding Question- 20

Pascal triangle C program

Java

```
{
}

public static void main(String[] args)
{
    Scanner sc=new Scanner(System.in);
    System.out.print("Enter the number of rows you wish to see in pascal
triangle\n");
    int n=sc.nextInt();
    int i=0,c=0;
    for (i = 0; i < n; i++)
    {
        for (c = 0; c <= (n - i - 2); c++)
            System.out.print(" ");
```

```

        for (c = 0; c <= i; c++)
c))+" ");      System.out.print(factorial (i)/(factorial(c) * factorial(i -
System.out.println();
}
}
public static long factorial (int n)
{
    int c;
    long result = 1;

    for (c = 1; c <= n; c++)
result = result * c;
return result;
}
}

```

Wipro NLTH Coding Question- 22

Ques: Find the image of matrix.

Java

```

import java.util.*;
class Main
{
    public static void main(String[] args)
    {
        Scanner sc=new Scanner(System.in); System.out.println("Enter number
of rows and columns in a matrix"); int r=sc.nextInt(); int
c=sc.nextInt(); int arr1[][]=new int[r][c]; int arr2[][]=new int[r]
[c]; int arr3[][]=new int[r][c];

        System.out.println("Enter "+r+"X"+c+" matrix");
        for(int i=0;i<r;i++)

            for(int j=0;j<c;j++)
                arr1[i][j]=sc.nextInt();

        for(int i=0;i<r;i++)
        {
            for(int j=0,k=c-1;j<c;j++,k--)
                arr2[i][k]=arr1[i][j];
        }

        for(int j=0;j<c;j++)
            for(int i=0,k=r-1;i<r;i++,k--)
                arr3[k][j]=arr1[i][j];

        System.out.println("The original matrix is ");
        for(int i=0;i<r;i++)
        {
            for(int j=0;j<c;j++)
                System.out.print(arr1[i][j]+" ");
            System.out.println();
        }
    }
}

```

```

    }

    System.out.println("The Y axis image is \n");
    for(int i=0;i<r;i++)
    {
        for(int j=0;j<c;j++)
            System.out.print(arr2[i][j]+" ");
        System.out.println();
    }

    System.out.println("The x axis image is ");
    for(int i=0;i<r;i++)
    {
        for(int j=0;j<c;j++)
            System.out.print(arr3[i][j]+" ");
        System.out.println();
    }
}

```

Wipro NLTH Coding Question- 27

Ques: Reverse string without using any temporary variable.

Given a string, the job is to reverse the total string without using any temporary variable.

Input

AbcdE

Output

Edcba

C++

```
#include <bits/stdc++.h>
using namespace std;

string reversingString(string str, int start, int end)
{
    while (start < end)
    {
        str[start] ^= str[end];
        str[end] ^= str[start];
        str[start] ^= str[end];
        ++start; --end;
    }
    return str;
}

int main()
{
    string s; getline(cin,s);
    cout << reversingString(s,0,s.length()-1);
}
```

Java

```

import java.util.*;
class Main
{
    public static String reverseString(String str, int start, int end)
    {
        char arr[]=str.toCharArray();
        while(start<end)
        {
            arr[start]^=arr[end];
            arr[end]^=arr[start];
            arr[start]^=arr[end];
            start++; end--;
        }
        return new String(arr);
    }
    public static void main(String[] args)
    {
        Scanner sc=new Scanner(System.in);
        String str=sc.next();
        System.out.println(reverseString(str,0,str.length()-1));
    }
}

```

Python

```

s=input()

start=0

end=len(s)-1

s=list(s)

for i in range(len(s)):

    s[i]=ord(s[i])

while start<end:

    s[start]^=s[end]

    s[end]^=s[start]

    s[start]^=s[end]

    start+=1 end-=1


ans=""

for i in range(len(s)):

    ans+=chr(s[i])

print(ans)

```

Wipro NLTH Coding Question- 29

Ques: Mooshak the mouse has been placed in a maze. There is a huge chunk of cheese somewhere in the maze. The maze is represented as a two-dimensional array of integers, where 0 represents walls. 1 represents paths where Mooshak can move and 9 represents the huge chunk of cheese. Mooshak starts in the top left corner at 0.

Write a method is Path of class Maze Path to determine if Mooshak can reach the huge chunk of cheese. The input to is Path consists of a two dimensional array and for the maze matrix. The method should return 1 if there is a path from Mooshak to the cheese. And 0 if not Mooshak is not allowed to leave the maze or climb on walls.

Moshak can only move right or down.

EX: 8 by 8(8*8) matrix maze where Mooshak can get the cheese.

1 0 1 1 1 0 0 1

1 0 0 0 1 1 1 1

1 0 0 0 0 0 0 0

1 0 1 0 9 0 1 1

1 1 1 0 1 0 0 1

1 0 1 0 1 1 0 1

1 0 0 0 1 0 1

1 1 1 1 1 1 1 1

Test Cases:

Case 1:

Input: [[1,1,1],[9,1,1],[0,1,0]]

Expected return value :1

Explanation:

The piece of cheese is placed at (1,0) on the grid Mooshak can move from (0,0) to (1,0) to reach it or can move from (0,0) to (0,1) to (1,1) to (1,0) Test case 2:

Input: [[0,0,0],[9,1,1],[0,1,1]]

Expected return value: 0

Explanation:

Mooshak cannot move anywhere as there exists a wall right on (0,0)

Existing Program

/*include header files needed by your program

some library functionality may be restricted

define any function needed

function signature begins, this function is required*/ Int isPath(int **grid,int m,int n)

C++

```
#include <bits/stdc++.h>
using namespace std;
int n;
bool IsValid(int i,int j,vector<vector<int>> &arr,vector<vector<int>> &vis)
{
    if(i>=0 && i<n && j>=0 && j<n)
        if(vis[i][j]==0 && arr[i][j])
    {
        vis[i][j]=1;
        return 1;
    }
    return 0;
```

```

}

int main()
{
    cin>>n;
    vector<vector<int>> arr(n, vector<int>(n,0)),vis(n, vector<int>(n,0));
    for(int i=0;i<n;i++)
        for(int j=0;j<n;j++) cin>>arr[i][j];
    queue<pair<int,int>> q;
    if(IsValid(0,0,arr,vis))q.push({0,0});
    while(!q.empty())
    {
        pair<int,int> p=q.front();
        if(arr[p.first][p.second]==9) {cout<<1;return 0;}
        if(IsValid(p.first+1,p.second,arr,vis)) q.push({p.first+1,p.second});
        if(IsValid(p.first,p.second+1,arr,vis)) q.push({p.first,p.second+1});
    }
    cout<<0;
}

```

Java

```

import java.util.*;
class Main
{
    public static int hasPath(int[][]maze)
    {
        if(solve(maze,0,0))
            return 1;
        return 0;
    }

    public static boolean solve(int [][]maze, int i, int j){
        if(i<0 || j<0 || i>=maze.length || j>=maze.length || maze[i][j]==0)
            return false;
        if(maze[i][j]==9)
            return true;
        maze[i][j]=0;
        boolean op1,op2,op3,op4;
        op1 = solve(maze,i+1,j);
        op2 = solve(maze,i,j+1);
        op3 = solve(maze,i-1,j);
        op4 = solve(maze,i,j-1);
        maze[i][j] = 1;
        return (op1|| op2 || op3 || op4);
    }

    public static void main(String[] args)
    {
        Scanner sc=new Scanner(System.in);
        int n=sc.nextInt();
        int arr[][]=new int[n][n];
        for(int i=0;i<n;i++)
            for(int j=0;j<n;j++)
                arr[i][j]=sc.nextInt();
        System.out.println(hasPath(arr));
    }
}

```

Wipro NLTH Coding Question- 32

Question 1. There is a colony of 8 cells arranged in a straight line where each day every cell competes with its adjacent cells (neighbour). Each day, for each cell, if its neighbours are both active and both inactive, the cell becomes inactive the next day, otherwise it becomes active the next day. Assumptions: The two cells on the ends have single adjacent cell, so the other adjacent cell can be assumed to be always inactive. Even after updating the cell state. Consider its previous state for updating the state of other cells. Update the cell information of all cells simultaneously. Write a function cell Compete which takes one 8 element array of integer's cells representing the current state of 8 cells and one integer days representing the number of days to simulate. An integer value of 1 represents an active cell and value of 0 represents an inactive cell. Existing Program int* cellCompete(int* cells,int days)
{/ /write your code here
} //function signature ends

Test Cases

TESTCASES 1:

INPUT: [1,0,0,0,0,1,0,0],1

EXPECTED RETURN VALUE:

[0,1,0,0,1,0,1,0]

TESTCASE 2:

INPUT: [1,1,1,0,1,1,1,1],2

EXPECTED RETURN VALUE: [0,0,0,0,0,1,1,0]

C++

```
#include<bits/stdc++.h>
using namespace std;
int* cellCompete(int cells[8], int days)
```

```

{
    int temp[8];    int
    i=0,j=0;
    for(j=0;j<days;j++)
    {
        temp[0]=cells[1]^0;
        for(i=1;i<7;i++)
            temp[i]=cells[i-1]^cells[i+1];
        temp[i]=cells[i-1]^0;

        for(i=0;i<8;i++)
            cells[i]=temp[i];
    }
    return cells;
}
int main()
{
    int cells[8],days;
    for(int i=0;i<8;i++)
        cin>>cells[i];    cin>>days;
    cellCompete(cells,days);

    for(int i=0;i<8;i++)
        cout<<cells[i]<<" ";
    return 0;
}

```

Java

```

import java.util.*;
class Main
{
    public static int[] cellCompete (int cells[], int days)
    {
        int temp[] = new int[8];
        int i = 0, j = 0;

        for(j = 0; j < days; j++)
        {
            temp[0] = cells[1] ^ 0;

            for (i = 1; i < 7; i++)
                temp[i] = cells[i - 1] ^ cells[i + 1];
            temp[i] = cells[i - 1] ^ 0;

            for (i = 0; i < 8; i++)
                cells[i] = temp[i];
        }
        return temp;
    }

    public static void main (String[]args)
    {
        Scanner sc = new Scanner (System.in);
        int cells[] = new int[8];
        for(int i = 0; i < cells.length; i++)

            cells[i] = sc.nextInt ();
    }
}

```

```

int days = sc.nextInt ();
int res[] = cellCompete (cells, days);
for(int i = 0; i < res.length; i++)
    System.out.print (res[i] + " ");
}
}

```

Wipro NLTH Coding Question- 33

The least recently used (LRU) cache algorithm exists the element from the cache (when it's full) that was least recently used. After an element is requested from the cache, it should be added to the cache (if not already there) and considered the most recently used element in the cache. Initially, the cache is empty. The input to the function LruCountMiss shall consist of an integer max_cache_size, an array pages and its length Len

The function should return an integer for the number of cache misses using the LRU cache algorithm.

Assume that the array pages always have pages numbered from 1 to 50.

INPUT

3, [7,0,1,2,0,3,0,4,2,3,0,3,2,1,2,0], 16

EXPECTED RETURN VALUE

9

INPUT

2,[2,3,1,3,2,1,4,3,2],9

EXPECTED RETURN VALUE

8

EXPLANATION:

The following page numbers are missed one after the other 2,3,1,2,1,4,3,2. This results in 8 page misses.

C++

```
#include <bits/stdc++.h>
using namespace std;

int Func(int a,int *arr,int n)
{
    unordered_map<int,int> m;
    int ans=0;
    for(int i=0;i<n;i++)
    {
        if(m[arr[i]]) {m.erase(arr[i]);m[arr[i]]++;}
        else {
            if(m.size()>a) {m.erase(arr[i-a]);}
            m[arr[i]]++; ans++;
        }
    }
    return ans;
}

int main()
{
    int a,n;
    cin>>a>>n;
    int arr[n];
    for(int i=0;i<n;i++) cin>>arr[i];
    cout<<Func(a,arr,n);
}
```

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1. Find the next number in the series 1, 3 ,7 ,13 ,21 ,31

- (a) 43
- (c) 41
- (b) 33
- (d) 45

Answer : a

2. A person travels 12 km in the southward direction and then travels 5km to the right and then travels 15km toward the right and finally travels 5km towards the east, how far is he from his starting place?

- (a) 5.5 kms
- (b) 3 km
- (c) 13 km
- (d) 6.4 km

Answer : b

3. If "PROMPT" is coded as QSPLOS ,then "PLAYER" should be

- (a) QMBZFS
- (b) QWMFDW
- (c) QUREXM
- (d) URESTI

Answer : a

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4. A person travels 6km towards west, then travels 5km towards north ,then finally travels 6km towards west. Where is he with respect to his starting position?

- (a) 13km east
- (b) 13km northeast
- (c) 13km northwest
- (d) 13km west

Answer : c

5. If A speaks the truth 80% of the times, B speaks the truth 60% of the times. What is the probability that they tell the truth at the same time.

- (a) 0.8
- (b) 0.48
- (c) 0.6
- (d) 0.14

Answer : b

6. X's father's wife's father's granddaughter uncle will be related to

X as

- (a) Son
- (b) Nephew
- (c) Uncle
- (d) Grandfather

Answer : c

7. If in a certain code "RANGE" is coded as 12345 and "RANDOM" is coded as 123678. Then the code for the word "MANGO" would be

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ubk anna

- (a) 82357
- (b) 89343
- (c) 84629
- (d) 82347

Answer : d

8. Susan can type 10 pages in 5 minutes. Mary can type 5 pages in 10 minutes. Working together, how many pages can they type in 30 minutes?

- (a) 15
- (b) 20
- (c) 25
- (d) 75

9. Six bells commence tolling together and toll at intervals 2,4,6,8,10 and 12 seconds respectively. In 30 minutes how many times they toll together.

- a) 4
- b) 10
- c) 15
- d) 16

Answer : d

10. X varies inversely as square of y. Given that $y = 2$ for $x = 1$. The value of x for $y = 6$ will be equal to

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- (a) 3
- (b) 9
- (c) $1/3$
- (d) $1/9$

Answer : D

11. If 10% of $x = 20\%$ of y , then $x : y$ is equal to

- (a) $1 : 2$
- (b) $2 : 1$
- (c) $5 : 1$
- (d) $10 : 1$

Answer : b

12. A starts business with Rs.3500 and after 5 months, B joins with A as his partner. After a year, the profit is divided in the ratio 2 : 3. What is B's contribution in the Capital ?

- (a) Rs. 7500
- (b) Rs. 8000
- (c) Rs. 8500
- (d) Rs. 9000

Answer : d

13. Ronald and Elan are working on an assignment. Ronald takes 6 hours to type 32 pages on a computer, while Elan takes 5 hours to type 40

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pages. How much time will they take, working together on two different computers to type an assignment of 110 pages ?

- (a) 7 hours 30 minutes**
- (b) 8 hours**
- (c) 8 hours 15 minutes**
- (d) 8 hours 25 minutes**

Answer : c

14. A and B can do a piece of work in 72 days; B and C can do it in 120 days; A and C can do it in 4 days. Who among these will take the least time if put to do it alone?

- (a) 80 days**
- (b) 100 days**
- (c) 120 days**
- (d) 150 days**

Answer : c

15. A cistern can be filled by a tap in 4 hours while it can be emptied by another tap in 9 hours. If both taps are opened simultaneously, then after how much time will the cistern get filled ?

- (a) 4.5 hours**
- (b) 5 hours**
- (c) 6.5 hours**
- (d) 7.2 hours**

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Answer : d

16. Pipe a can fill a tank in 5 hours, pipe B in 10 hours and pipe C in 30 hours. If all the pipes are open, in how many hours will the tank completely ?

- (a) 6 min. to empty
- (b) 6 min to fill (c) 9 min. to empty (d) 9 min. to fill

Answer : c

17. A thief steals a car at 2.30 p.m and drives it at 60 kmph. The theft is discovered at 3 p.m and the owner sets off in another car at 75 kmph. When will be overtake the thief.

- (a) 4.30 p.m
- (b) 4.45 p.m
- (c) 5 p.m
- (d) 5.15 p.m

Answer : d

18. Two trains starting at the same time from two stations 200 km apart, and going in opposite directions cross each other at a distance of 110 km from one of the stations. What is the ratio of their speeds

- (a) 9 : 20
- (b) 11 : 9
- (c) 11 : 20

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(d) None of these

Answer : B

19. Two trains each 100 m long, moving in opposite directions, cross each other in 8 seconds. If one is moving twice as fast the other, then the speed of the faster train is

- (a) 30 km /hr
- (b) 45 km / hr
- (c) 60 km/hr
- (d) 75 km/hr

Answer : C

20. Two trains each 100 m long, moving in opposite directions, cross each other in 8 seconds. If one is moving twice as fast the other, then the speed of the faster

train
is

- (a) 30 km /hr
- (b) 45 km / hr
- (c) 60 km/hr
- (d) 75 km/hr

Answer : C

Verbal Ability Questions

Direction (1-10) : In each of the following questions, find out which part of the sentence has an error. If there is no mistake the answer is 'no error'

1. The house with all its(a) / furniture and exotic plants(b) / were sold for Rs. 50,000(c) / No error(d)

Answer : c

2. The teacher asked the students(a) / if everyone of them were interested in(b) / going on an excursion(c) / No error(d)

Answer : b

3. A physiologist in the last century demonstrated(a) / that puppies will die(b) / if kept awake for more than five days(c) / No error(d)

Answer : b

4. It is unfortunate that(a) / many youngsters get(b) / addicted to gamble(c) / No error(d)

Answer : c

5. I have seen(a) / that film last year(b) / but I do not remember its story(c) / No error(d)

Answer : a

6. Twice twelve(a) / makes(b) / twenty four (c)/ No error(d)

Answer : b

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7. The flight purser took control(a) / of the plane after(b) / the pilot had had(c) / a heart attack(c)/ No error(d)

Answer : c

8. My friend did not see me(a) / for many years(b) / when I met him last week(c) / No error(d)

Answer : a

9. We grieve our loss and cry helplessly(a) / while we should be fighting for our rights(b) / and die a noble death(c) / No error(d)

Answer : b

10. Work hard(a) / lest you will(b) / fail(c)/ No error(d)

Answer : d

Directions(11-18): The following questions, consist of two words each that have a certain relationship to each other, followed by four lettered pairs of words. Select the lettered pair that has the same relationship as the original pair of words.

11. Plants : Coal

- (a) Crops : Manure
- (b) Animals : Oil
- (c) Cow : Milk
- (d) Fire : Smoke

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Answer : b

12. Rectangle : Cylinder

(a) Square : Sphere

(b) Circle : Disc (c)

Triangle : Cone (d)

Wall : Room

Answer : c

13. Expend : Replenish

(a) Exhort : Encourage (b)

Formant : Rebellion (c)

Defect : Rejoin (d)

Encroachment : Occupy

Answer : c

14. Kangaroo: Australia

(a) Whale: River (b)

Elephant: Russia (c)

Penguin: Antarctica (d)

India: Peacock

Answer : c

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15. Coronation: Reign

(a) Vaccination: Immunity

(b) Sculptor: Statue (c)

Degree : Graduate (d)

Summer: Rain

Answer : d

16. Grain: Salt

(a) Chip: Glass (b)

Blades: Grass (c)

Shred: Wood (d)

Shard: Pottery

Answer : a

17. Scythe; Reaping

(a) Light: Shining (b)

Shears: Cutting (c)

Saws: Gluing (d)

Screws: Turning

Answer : b

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18. Dislike: Repulsion

- (a) Dream: Sleep
- (b) Steal: Crime
- (c) Reputation: Behavior
- (d) Intelligence: Wit

Answer : d

Directions (19-20): In each of the following questions, a sentence has been given in Active (or passive) voice. Out of the four alternatives suggested select the one which best express the same sentence in Passive (or Active) Voice.

19. His pocket has been picked.

- (a) They have his pocket picked
- (b) Picking has been done to his pocket
- (c) Picked has been his pocket
- (d) Someone has picked his pocket.

Answer : d

20. Someone gave her a bull dog.

- (a) She was given a bull dog.
- (b) a bull dog was given to her
- (c) She has been given a bull dog
- (d) She is being given a bull dog by someone

Answer: b

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Directions(21-23): Pick out the most effective word from the given words to fill in the blank to make the sentence meaningfully complete.

21. He succeeded in getting possession..his land after a long court case

- (a) For
- (b) to
- (c) of
- (d) with
- (e) against

Answer : c

22. Now a day Rajani is .busy to take care of her health.

- (a) Very
- (b) too
- (c) so
- (d) extremely

Answer : b

23. Had the police not reached there in time the bandits him

- (a) Did have killed
- (b) will have killed
- (c) would kill

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(d) would have killed

Answer : d

Technical Questions

1. The format specifier "%d" is used for which purpose in C

- (a) Left justifying a string
- (b) Right justifying a string
- (c) Removing a string from the console
- (d) Used for the scope specification of a char[] variable

Answer : a

2. A sorting algorithm which can prove to be a best time algorithm

in

one case and a worst time algorithm in worst case is

- (a) Quick Sort
- (b) Heap Sort
- (c) Merge Sort
- (d) Insert Sort

Answer : a

3. If the time quantum is too large, Round Robin scheduling degenerates to

- (a) Shortest Job First Scheduling
- (b) Multilevel Queue Scheduling
- (c) FCFS
- (d) None of the above

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Answer : c

4. Transponders are used for which of the following purposes

- (a) Uplinking
- (b) Downlinking
- (c) Both (a) and (b)
- (d) None of the above

Answer : c

5. What details should never be found in the top level of a top-down design?

- (a) Details
- (c) Decisions
- (b) Coding
- (d) None of the above

Answer : c

6. Thrashing can be avoided if

- (a) The pages, belonging to the working set of the programs, are in main memory
- (b) The speed of CPU is increased
- (c) The speed of I/O processor are increased
- (d) All of the above

Answer : a

7. Which of the following communications lines is best suited to interactive processing applications?

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- (a) Narrowband channels
- (b) Simplex channels
- (c) Full-duplex channels
- (d) Mixed band channels

Answer : b

8. A feasibility document should contain all of the following except

- (a) Project name
- (b) Problem descriptions
- (c) Feasible alternative
- (d) Data flow diagrams

Answer : d

9. In an absolute loading scheme, which loader function is accomplished by assembler

- (a) Reallocation
- (b) Allocation
- (c) Linking
- (d) Both (a) and (b)

Answer : d

10. Banker's algorithm for resource allocation deals with

- (a) Deadlock prevention
- (b) Deadlock avoidance
- (c) Deadlock recovery
- (d) None of these

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Answer : b

11. A shift register can be used for

- (a) Parallel to serial conversion
- (b) Serial to parallel conversion
- (c) Digital delay line
- (d) All the above

Answer : d

12. In which of the following page replacement policies, Balady's anomaly occurs?

- (a) FIFO
- (b) LRU
- (c) LFU
- (d) NRU

Answer : a

13. Subschema can be used to

- (a) Create very different, personalised views of the same data
- (b) Present information in different formats
- (c) Hide sensitive information by omitting fields from the sub-schema's description
- (d) All of the above

Answer : d

14. A 12 address lines maps to the memory of

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- (a) 1k bytes
- (b) 0.5k bytes
- (c) 2k bytes
- (d) none

Answer : b

15. What is the main function of a data link content monitor?

- (a) To detect problems in protocols
- (b) To determine the type of transmission used in a data link
- (c) To determine the type of switching used in a data link
- (d) To determine the flow of data

Answer : a

16. Which of the following memories has the shortest access time?

- (a) Cache memory
- (b) Magnetic bubble memory
- (c) Magnetic core memory
- (d) RAM

Answer : a

17. In a processor these are 120 instructions . Bits needed to implement this instructions

- (a) 6
- (b) 7

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(c) 10 (

d) none

Answer : b

18. Predict the output or error(s) for the following:

```
main()
{
char string[]="Hello World";
display (string);
}
void display (char *string)
{
printf("%s,string);
}
```

**Answer : Compiler Error: Type mismatch in redeclaration of function
display**

19. What are the values printed by the following program?

```
#define dprint(expr) printf(#expr "%d\n",expr)
main() { int x=7;
int y=3;
dprintf(x/y);
}
```

(a) #2 = 2

(b) expr=2

(c) x/y=2

(d) none

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Answer : c

20. Parameterization generally involves

- (a) Data table
- (b) Random number
- (c) Environment
- (d) Both A & B
- (e) Both A, B & C

Answer : e

21. The file which is used for recovering from the run time errors known as

- (a) QRS
- (b) TSR
- (c) PNG
- (d) DAT

Answer : A

22. Among the following recording modes, which method uses both the objects and mouse coordinates

- (a) Normal
- (b) Low level
- (c) Analog
- (d) All of the above

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Answer : b

23. Where do you set the action iterations for a specified action?

- (a) Action Settings
- (b) Action Properties
- (c) Action Run Properties
- (d) Action Call Properties

Answer : d

24. Where do you mark an action as reusable?

- (a) Action Settings
- (b) Action Properties
- (c) Action Run Properties
- (d) Action Call Properties

Answer : b

25. After running a test that contains both input and output parameters, where can the results of an output parameter be found?

- (a) Local Data Sheet
- (b) Global Data Sheet
- (c) Run-time Data Table
- (d) Design-time Data Table

Answer : c

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26. If you have a Virtual Object Collection stored on your machine, and you dont want to use it what you must do?

- (a) Disable Virtual Objects in Test Settings**
- (b) Remove the Collection from your machine**
- (c) Disable Virtual Objects in General Options**
- (d) Remove the Collections from the Resources list**

Answer : c

27. For a 25MHz processor, what is the time taken by the instruction which needs 3 clock cycles,

- (a) 120 nano secs**
- (b) 120 micro secs**
- (c) 75 nano secs**
- (d) 75 micro secs**

Answer : a

28. For 1 MB memory, the number of address lines required,

- (a) 11**
- (b) 16**
- (c) 20**
- (d) 24**

Answer : c

29. Semaphore is used for

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- (a) synchronization
- (b) dead-lock avoidance
- (c) box
- (d) none

Answer : a

30. OLE is used in

- (a) Inter connection in UNIX
- (b) Interconnection in WINDOWS
- (c) Interconnection in WINDOWS NT
- (d) None

Answer : c

31. Preprocessor does not do which one of the following

- (a) macro
- (b) conditional compilation
- (c) in type checking
- (d) including load file

Answer : c

32. Piggy backing is a technique for

- (a) Flow control

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- (b) Sequence
- (c) Acknowledgement
- (d) Retransmission

Answer : c

33. In signed magnitude notation what is the minimum value that can be represented with 8 bits

- (a) -128
- (b) -255
- (c) -127
- (d) 0

Answer : a

34. When an array is passed as parameter to a function, which of the following statement is correct

- (a) The function can change values in the original array
- (b) In C parameters are passed by value. The function cannot change the original value in the array
- (c) It results in compilation error when the function tries to access the elements in the array
- (d) Results in a run time error when the function tries to access the elements in the array

Answer : a

35. The type of the controlling statement of a switch statement cannot be of the type

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- (a) int
- (b) char
- (c) short
- (d) float
- (e) none

Answer : d

36. What is the value of the statement $(3^6) + (a^a)$?

- (a) 3
- (b) 5
- (c) 6
- (d) 18
- (e) None

Answer : b

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English

1. In the question, a part of the sentence is italicized. Alternatives to the italicized part are given which may improve the construction of the sentence. Select the correct alternative.

The appropriate atmospheric conditions made it feasible for the astronomers to see the stars *and they could even distinguish the sizes.*

- A. And even distinguish the sizes
- B. And they were even distinguishing the sizes
- C. And he could even distinguish the sizes
- D. And even distinguishing the sizes.

Answer: A

2. In the question, a part of the sentence is italicized. Alternatives to the italicized part are given which may improve the construction of the sentence. Select the correct alternative. The most obvious downside to this pessimism is that *it is coming at their expenses.*

- A. It is coming at their expense
- B. It is costing at their expense
- C. It will be expensive
- D. It was coming at their expense

Answer: A

3. Select the correct option that fills the blank(s) to make the sentence meaningfully complete.

Many employees feel that the economic situation should not be a _____ to the performance management system of any organization.

- A. Deterrent
- B. Encouragement
- C. Problem
- D. Symptom

Answer: A

4. Select the correct option that fills the blank(s) to make the sentence meaningfully complete.

Mentally he _____ not been the same after his near fatal accident.

- A. Has
- B. Was
- C. Have
- D. Is
- E. Had

Answer: A

5. Select the correct option that fills the blank(s) to make the sentence meaningfully complete.

Everyone improves _____ standards but this is a complete overhaul of the erstwhile superb.

- A. On
- B. At
- C. In

D.The

Answer: D

6. Read the sentence to find out whether there is any grammatical error in it. The error, if any, will be in one part of the sentence. The letter of that part is the answer. If there is no error, the answer is "D". (ignore - the errors of punctuation, if any) (A)The meeting adjourned abruptly/(B) by the CEO after/(C) about three hours of deliberation./ (D) No error A. (A) B. (B) C. (C) D. (D)

Answer: A

7. Select the word or phrase which best expresses the meaning of the given word.

PROFUSE A. Defuse B. Ample C. Flimsy D. Accept E. Declare

Answer: B

8. Select the word or phrase which best expresses the meaning of the given word.

CREDULITY

- A. Credible
- B. Discipline
- C. Gullible
- D. Weakness

Answer: C

9. Select the option that is most nearly opposite to the given word.

FUTILE (OPPOSITE) A. Useful B. Handy C. Functional D. Positive

Answer: A

10. Select the option that is most nearly opposite to the given word.

LITERAL (OPPOSITE)

- A. Factual
- B. Usual
- C. Ordinary
- D. Unbiased
- E. Figurative

Answer: E

Direction (Q11 to Q14): Read the given passage carefully and answer the question that follows.

The Stratosphere specifically, the lower Stratosphere has. It seems, been drying out. Water vapor Is a greenhouse gas, and the cooling effect on the Earth's climate due to this desiccation may account for a fair bit of the slowdown in the rise of global temperatures seen over the past ten years. The Stratosphere sits on top of the Troposphere, the lowest densest layer of the atmosphere. The boundary between the two, the Tropopause, is about 18km above your head. If you are in the tropics, and a few kilometers lower if you are at higher latitudes (or up a mountain). In the Troposphere, the air at higher altitudes is in general cooler than the air below it, an unstable situation in which warm and often moist air below is endlessly buoying up into cooler air above. The resultant commotion creates clouds, storms and much of the rest of the world's weather. In the Stratosphere, the air gets warmer at higher altitudes, which provides stability. The Stratosphere-which extends up to about 55km, where the Mesosphere begins, Is made even less weather-prone by the absence of water vapor, and thus of the clouds and precipitation to which it leads. This is because the top of the Troposphere is normally very cold, causing ascending water vapor to freeze into ice crystals that drift and fall, rather than continuing up into the Stratosphere. A little water manages to get past this cold trap. But as Dr Solomon and her colleagues note, satellite measurements show that rather less has been doing so over the past ten years than was the case previously. Plugging the changes in water vapor into a climate model that looks at the way different substances absorb and emit Infrared radiation, they conclude that between 2000 and 2009 a drop in the Stratospheric water vapor of less than one part per million slowed the rate of warming at the Earth's surface by about 25%.

11. What is the order of layers in the atmosphere starting from the lowermost and going to the topmost?

- A. Tropopause, Troposphere, Mesosphere, Stratosphere
- B. Troposphere, Tropopause, Stratosphere, Mesosphere
- C. Troposphere, Tropopause, Mesosphere, Stratosphere
- D. Troposphere, Stratosphere, Tropopause, Mesosphere

Answer: B

12. Choose the correct answer based on the passage.

Why is the situation in the troposphere defined as unstable?

- A. Because, unlike the Stratosphere, there is too much water vapor in the Troposphere
- B. Because the Troposphere is not directly linked to the Stratosphere, but through the Tropopause which creates much of the world's weather
- C. Because of the interaction between warm and cool air which is unpredictable in nature and can lead to storms
- D. Because this layer of the atmosphere is very cloudy and can lead to weather related disruptions

Answer: C

13. What in the passage has been cited as the main reason affecting global temperatures?

- A. Relative change in water vapor content in the Stratosphere
- B. Drop in Stratospheric water vapor of less than one part per million
- C. The extreme dryness in the Stratosphere
- D. Absorption and emission of infrared radiation by different substances

Answer: B

14. What accounts for the absence of water vapor in stratosphere?

- A. The layer of Stratosphere is situated too far above for the water vapor to reach
- B. Rising global temperatures, leading to reduced water vapor that gets absorbed in the Troposphere
- C. The greenhouse gas gets absorbed by the clouds in the Troposphere and comes down as rain
- D. Before the vapor can rise up, it has to pass through below freezing temperatures and turns into ice

Answer: D

Direction (Q15 to Q18): Read the given passage carefully and answer the question that follows.

My phone rings again. It is futile to ignore it anymore. Maneesha is persistent. She will continue to bedevil me until I acquiesce. "Hello", I answer. "The circus, Atika?" she says in her sing-song voice. "When are we going? Only two more days left!" I abhor the Circus. The boisterous crowds, the overwhelming smell of animal feces, the insanely long lines with wailing children and the impossibility of finding a clean restroom all combine to make this an event that I dread. For Maneesha, my best friend since the angst of middle school, the Circus is a sign that divine powers really do exist. "Really, Atika, where else can you pet an elephant, see a stuntman ride a horse, laugh till you are ready to cry, see the world's smallest person and eat fried potatoes and butter soaked popcorn?" Maneesha asks gleefully. "Hell?" I guess. The fried food at the Circus is a gastronomical nightmare on its own. I once tried a fried Cottage Cheese stick at the fair and was sick to my stomach for hours. And a fried burger with oil soaked potato patty, cheese, multicolored sauces AND a greasy slice of cottage cheese? How could that not be deleterious to your health?

15. What does it mean to acquiesce?

- A. To give in
- B. To speak kindly
- C. To pay attention
- D. To answer the phone

Answer: A

16. How does Maneesha seem to feel about the circus?

- A. Ambivalent
- B. Condescending
- C. Jubilant
- D. Nonchalant

Answer: D

17. Why might the author have chosen to capitalize all the letters in the word “and” when writing about the burger she ate? A. To make sure the reader understood it was a list B. To show that a greasy slice of cottage cheese was the last ingredient C. To highlight her dislike of greasy slice of cottage cheese D. To emphasize how many ingredients were in the burger

Answer: D

18. What does the term gastronomical suggest?

- A. Enormous
- B. Health risk
- C. Culinary issue
- D. Resulting in gas

Answer: C

Logical Ability Questions

1. From the given choices select the odd one out.

- A. AFB
- B. MRN
- C. KPL
- D. RXS

Answer: D

2. From the given choices select the odd one out.

- A. ADG
- B. HKN
- C. PSW
- D. MPS

Answer: C

3. Five cars are parked in a row facing Eastward. E is parked to the left of A, B and C, B, C and A are parked to the left of D. C is parked between A and B. If B is parked fourth from the left, how far is A parked from the right? A. Fourth B. Third C. Second D. First

Answer: A

4. A man moves 2 kms towards east, then 3 kms towards South and again 2 kms towards west and then he goes 2 kms towards the initial point from where he started. In which direction is he from his initial position?

- A. East
- B. South
- C. West
- D. North

Answer: B

5. P is the father of R but is not his son. M is the spouse of R. How is M related to P?

- A. Son-in-law
- B. Wife
- C. Daughter-in-law
- D. Uncle

Answer: A

6. Two friends A and B start walking from a common point. A goes 20 kms towards north-east whereas B goes 16 kms towards east and then 12 kms towards north. How far are A and B from each other? A. 14 kms B. They are at the same place at the finishing point

- C. 15 kms
- D. Data is insufficient

Answer: A

7. Find the missing term in the series.

- 2,3,7,8,13,14..... A. 24 B. 21 C. 18
D. 20

Answer: D

8. The question consists of a problem question followed by two statements I and II. Find out if the information given in the statement(s) is sufficient in finding the solution to the problem. Problem question: How much time would a machine take to put caps on 300 bottles? Statements:

- I. It takes 8 hours to put caps on 300 bottles manually.
 - II. It takes 2 minutes lesser to put cap on a bottle using machine than putting it manually.
- A. Statement I alone is sufficient in answering the problem question
 - B. Statement II alone is sufficient in answering the problem question
 - C. Either of the statements taken individually is sufficient in answering the problem question
 - D. Both statements put together are sufficient in answering the problem question
 - E. Both the statements even put together are not sufficient in answering the problem question

Answer: D

9. From the given choices select the odd one out.

- A. ADP
- B. QTX
- C. HKR
- D. STE

Answer: D

10. Find the next number in the series.

1,4,18,48,....

- A. 120
- B. 64
- C. 100
- D. 96

Answer: C

11. Read the passage carefully and select the statement that can be inferred from it.

Of all the fitness and wellness activities customary in India, Artistic yoga is the new kid in town. It has successfully earned a pat on the back from whosoever has lent an ear to the latest advancements. Artistic yoga combines the suaveness of yoga and the frenzy of modern cardio-vascular exercises. The technique involves performance of various aasanas and pranayams followed by walking on treadmill, stair climbing, cycling and so on. The activities are performed in a cyclic order and the

aasana or pranayam that is done in the beginning is repeated in the end. This helps an individual at the physical level as well as the mental and spiritual level, thus helping bring about a complete transformation of body, mind and soul. A. Artistic yoga helps in the overall development of those who practise it B. Artistic yoga has been adopted by modern people since it is in fashion these days C. All the activities performed at the beginning of artistic yoga are also repeated in the end D. Since it combines yoga and exercises, artistic yoga will replace other fitness and wellness

programmes.

Answer: A

12. The question consists of a problem question followed by two statements I and II. Find out if the information given in the statement(s) is sufficient in finding the solution to the problem.

Problem question: The set S of numbers has the following properties: a) If p is in S, then $1/p$ is in S
b) if both p and q are in S, then so is $p+q$ is 5 in S?

Statements:

- I. $1/5$ is in S
- II. $1/2$ is in S

- A. Statement I alone is sufficient in answering the problem question
- B. Statement II alone is sufficient in answering the problem question
- C. Both the statements put together are sufficient in answering the problem question
- D. Both the statements even put together are not sufficient in answering the problem question
- E. Either of the statement is sufficient to answering the problem question

Answer: A

13. Choose the option that arranges the given set of words in the ‘most’ meaningful order. The words when put in order should make logical sense according to size, quality, quantity, occurrence of events, value, appearance, nature, process, etc.

- 1. Animals
 - 2. Biology
 - 3. Science
 - 4. Lion
 - 5. Zoology
- A. 3,5,2,1,4
 - B. 3,2,5,1,4
 - C. 3,1,2,5,4
 - D. 3,1,4,5,2

Answer: B

Quantitative Ability (Advanced) Questions

1. Choose the correct option. Ram is five years elder to his youngest sibling Shreya. Shreya is two years younger than her brother Ritesh. Ritesh is 13 years old and is Ram's brother. How old will Ram be in two years from now? A. 16 B. 17 C. 20 D. 15 E. 18

Answer: E

2. Choose the correct option.

-3.4 is a number on the real number line. If we subtract 1 from this number then the new number will be

- A. Farther from the origin than -3.4
- B. Closer to the origin than -3.4
- C. Equally farther from the origin as -3.4 is
- D. None of the above

Answer: A

3. Choose the correct option.

What is the unit digit of the following sum: $1 + 22 + 33 + 44 + 55 + 66$?

- A. 0 B. 4 C. 7 D. 9

Answer: D

4. A quiz has one multiple choice question with answer choices A, B, and C, and two true/false questions. What is the probability of answering all three questions correctly by guessing? A. $1/5$ B. $1/4$ C. $1/3$ D. $1/12$

Answer: D

5. In a poultry farm, 50 hens give 200 eggs in 2 days. In how many days will 20 hens give 400 eggs? A. 15 B. 10 C. 5 D. 8

Answer: B

6. If from a deck of 52 cards, 4 cards are selected and one card of it should be spade and another should be heart, in how many ways can these cards be selected?

- A. $132 * 50C2$
- B. $52C4$
- C. $26 * 50C2$
- D. $13C4$

Answer: A

7. Which number should be multiplied by 43 so that it will have 3 prime factors?

- A. 2
- B. 3
- C. 6
- D. 8

Answer: C

8. In an examination, a candidate is required to answer 5 questions in all, from 2 sections having 5 questions each. What are the total number of ways in which a candidate can select the questions, provided that at least two questions are to be attempted from each section? A. 200 B. 20 C. 100 D. 10

Answer: A

9. A pie has to be divided amongst few kids. Puneet gets $\frac{2}{7}$ th portion of the pie and Sheela gets $\frac{5}{8}$ th portion of the pie. Who amongst the two gets lesser share? A. Puneet B. Sheela C. Both get equal share D. Cannot be determined

Answer: A

10. The LCM AND HCF of two numbers are 2970 and 30 respectively. Prime factors of the product of two numbers are:

- A. 2,3,5,11
- B. 2,3,7,11
- C. 2,4,5,11
- D. 2,3,7,13

Answer: A

11. How many litres of a 90% solution of concentrated acid needs to be mixed with a 75% solution of concentrated acid to get a 30 L solution of 78% concentrated acid?

- A. 24 L
- B. 22.5 L
- C. 6 L
- D. 17.5 L

Answer: C

12. A bag contains 4 strawberries and 8 grapes. What is the probability that both the fruits drawn from it are strawberries?
- A. $\frac{1}{3}$ B. $\frac{1}{11}$ C.
 $\frac{3}{11}$ D. $\frac{1}{6}$

Answer: B

13. A Shopkeeper offers 'Buy 1, Get 1 Free' offer on a t-shirt marked at Rs. 2,400. If after a sale, the shopkeeper earns a profit of 33.33%, then what is the actual price of the t-shirt?
- A. Rs. 900
B. Rs. 800
C. Rs. 1,200
D. Rs. 1,000
E. Rs. 1,500
- Answer: A

14. Atul bought a machine for Rs.4,50,000 and sold it to Irrfan at a profit. Irrfan later sold the machine to Danish at a loss of 10% for Rs. 4,95,000. The profit earned by Atul is:
- A. 23%
B. 21%
C. 25%
D. 22.22%
- Answer: D

15. What is the value of (a,y) in $(13-20 - a \times 13y) = 168 \times 13-22$?
- A. (1, 2) B.
(0, 1) C.
(-1, 2) D.
(-1, 22) E.
(1, -22)
- Answer: E

16. Choose the correct option.

Rahul can finish one-fifth of his homework in one hour. Neha can finish three-seventh of her homework in one hour thirty minutes and Riya can finish three fourth of her homework in three hours thirty minutes. If all of them start their homework at 12.00 p.m. and can go to play as soon as they all finish their homework, when can they start to play, if they take a break at 3.30 p.m. for thirty minutes? A. 5.00 p.m B. 5.30 p.m C. 4.40 p.m D. 6.30 p.m E. 3.30 p.m

Answer: B

Automata Basic (Coding) Questions

1. The online math course provider ‘MathAtTip’ has designed a course for children called Learning Number Recognition and Counting. The assessment part of the course has a question where the student is given a number and a digit. The student needs to find out the total count of the digits present in the number excluding the given digit. Write an algorithm to help the student find out the count of the total number of digits present in the number excluding the given digit. Input The input consists of two integers - number and digit where the first line integer represents the number and the second line integer represents the digit given to the student. Output Print an integer representing the count of the total number of digits present in the number excluding the given digit. Constraints $0 < \text{number} < 10^9$ $0 < \text{digit} < 9$

Example

Input

5644456

5

Output

5

Explanation

Excluding 5; the digits in the number are 4 and 6 their total count is 5. Hence the output is 5.

Code Solution in C:

```
1 #include <stdio.h>
2
3 int getCount(long long int n , int k)
4 {
5     int count = 0;
6     while (n != 0) {
7         if((n%10)!=k)
8             count++;
9         n = n / 10;
10    }
11    return count;
12 }
13
14 int main()
15 {
16     long long int n;
17     int k;
18     scanf("%lld",&n);
19     scanf("%d",&k);
20     printf(" %d ", getCount(n,k));
21     return 0;
22 }
```

Code Solution in C++:

```
1 #include <iostream>
2 using namespace std;
3
4 int getCount(long long int n , int k)
5 {
6     int count = 0;
7     while (n != 0) {
8         if((n%10)!=k)
9             count++;
10        n = n / 10;
11    }
12    return count;
13 }
14
15 int main()
16 {
17     long long int n;
18     int k;
19     cin>>n;
20     cin>>k;
21     cout<<getCount(n,k);
22     return 0;
23 }
```

Code Solution in Java:

```
1 import java.io.*;
2 import java.util.*;
3 class Gfg{
4     static int getCount(long n, int k)
5     {
6         int count = 0;
7
8         while (n != 0) {
9             if((n%10)!=k)
10                 {
11                     count = count+1;
12                 }
13             n = n / 10;
14         }
15
16         return count;
17     }
18
19     public static void main(String[] args)
20     {
21         long n;
22         int k;
23         Scanner in = new Scanner(System.in);
24         n=in.nextLong();
25         k=in.nextInt();
26         System.out.println(getCount(n,k));
27     }
28 }
```

Code Solution in Python:

```
1 def getCount(n,k):
2     count = 0
3     while (n != 0):
4         if (n % 10)!=k:
5             count = count + 1
6         n = int(n/10)
7     return count
8
9 n=int(input())
10 k=int(input())
11 print(getCount(n,k))
```

2. The e-commerce company “TodaysApparel” has a list of sales values of N days. Some days the company made a profit, represented as a positive sales value. Other days the company incurred a loss, represented as a negative sales value. The company wishes to know the number of profitable days in the list. Write an algorithm to help the company know the number of profitable days in the list. Input The first line of input consists of an integer - numDays representing the number of days (N). The second line of input consists of N space-separated integers - sales[0], sales[1] sales[N-1] representing the sales value of N days respectively.

Output

Print an integer representing the number of days the company made a profit.

Example

Input
7

23 -7 13 -34 56 43 -12

Output

4

Explanation

The number of positive sales values in the list is 4. Hence the output is 4.

Code Solution in C:

```
1 #include <stdio.h>
2
3 int countPositiveSales(int* arr, int n)
4 {
5     int pos_count = 0;
6     int i;
7     for (i = 0; i < n; i++) {
8         if (arr[i] > 0)
9             pos_count++;
10    }
11    return pos_count;
12 }
13
14 int main()
15 {
16     int n;
17     scanf("%d", &n);
18     int arr[n];
19     for(int i=0;i<n;i++)
20     scanf("%d",&arr[i]);
21     printf("%d\n",countPositiveSales(arr, n));
22     return 0;
23 }
```



Code Solution in C++:

```
1 #include <iostream>
2 using namespace std;
3
4 int countPositiveSales(int arr[], int n)
5 {
6     int pos_count = 0;
7     int i;
8     for (i = 0; i < n; i++) {
9         if (arr[i] > 0)
10             pos_count++;
11     }
12     return pos_count;
13 }
14
15 int main()
16 {
17     int n;
18     cin>>n;
19     int arr[n];
20     for(int i=0;i<n;i++)
21         cin>>arr[i];
22     cout<<countPositiveSales(arr, n);
23     return 0;
24 }
```

Code Solution in Java:

```
1 import java.util.Scanner;
2
3 public class Main
4 {
5     public static void main(String args[])
6     {
7         int pos_count =0, i, n;
8         Scanner in = new Scanner(System.in);
9         n=in.nextInt();
10        int arr[] = new int[n];
11        for(i=0; i<n; i++){
12            arr[i] = in.nextInt();
13        }
14        for(i=0; i<n; i++){
15            if(arr[i] > 0){
16                pos_count++;
17            }
18        }
19    }
20
21    System.out.println(pos_count);
22 }
23 }
```

Code Solution in Python:

```
1 lst = [ ]
2 n = int(input())
3 lst = [int(item) for item in input().split()]
4
5 pos_count = 0
6 for num in lst:
7     if num >= 0:
8         pos_count += 1
9
10 print(pos_count)
```

Essay Writing Tips

Wipro Essay Writing round gets conducted on AMCAT's WriteX portal. The Essay Writing topics are quite interesting and easy to score provided you meet all the criteria under which WriteX evaluates your essay. Here is the list of parameters that generally gets evaluated on WriteX.

- Spelling
- Grammar
- Punctuation
- Topic Relevancy
- Essay Structure

Word Limit (100 to 400 Words)

In order to perform well in this round, keep the following things in mind:

- Organize your thoughts
- Form simple sentences
- Use short-length and common words
- Build proper structure (Introduction, Body and Conclusion)
- Segregate Passages Properly
- Cross-check the entire essay once

Things that need to be avoided:

- Spelling mistakes
- Grammatical errors
- Punctuation errors
- Not matching minimum word limit

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Project

1) what was your project all about?

2)What was the business need to go for the implementation/doing this project?

3)Did you do completed the whole project yourself?If yes,then explain each and everything in detail; if no ,then what was your part in the whole project?

4)What difficulties you faced while doing your part of the project?

5)What technologies you used and why you used them only?

6)How long did it take to complete your part of project?

7)Did you need help from people working on the other modules?

Must Prepare



JAVA

- 1. Is Java Platform Independent? If so, how?**
- 2. JDK, JRE, and JVM?**
- 3. difference between an interface and an abstract class?**
- 4. constructor in Java?**
- 5. difference between == and equals() in Java?**
- 6. difference between ArrayList and LinkedList.**
- 7. exception handling in Java?**
- 8. use of the final keyword in Java?**
- 9. difference between String, StringBuilder, and StringBuffer?**
- 10. What is the static keyword in Java?**
- 11. OOPS Concept, Class & Object . Overloading, overriding, Encapsulation, Inheritance and polymorphism .**

Must Prepare if you have mentioned java in CV



PYTHON

- 1. Explain the difference between lists and tuples in Python.**
- 2. Python decorators**
- 3. Python's built-in data types?**
- 4. What is the use of self in Python**
- 5. How can you handle exceptions in Python?**
- 6. Set and dictionary**

Must Prepare if you have mentioned Python in CV



SQL

- 1. What is SQL?**
- 2. DBMS vs RDBMS**
- 3. Diff joins**
- 4. Diff keywords**
- 5. normalization**
- 6. Delete vs truncate**
- 7. Aggregate function**
- 8. Where clause**
- 9. Primary key**
- 10. How to find the second highest salary from an Employee table?**

Must Prepare if you have mentioned SQL in CV



DSA

1. What is Tree data structure?

2. What is Tree Traversal?

3. How does depth-first traversal work?

4. What is the selection sort?

5. What are the advantages of selection sort?

6. List some applications of Tree-data structure?

7. Which are the data structures used in BFS and DFS algorithms?

8. Linked list vs Array

Must Prepare if you have mentioned SQL in CV



EXTRA

- 1. If you are from the core branch then why the IT industry?**
- 2. Reverse a string without using any temporary string. Count Characters, leap year, palindrome code.**
- 3. For CS/IT - What is SDLC?**
- 4. What are the different SDLC models, and differences between the waterfall and agile models?**
- 5. Weekness and strengths**



HR

- 1. Can you briefly tell us about yourself?**
- 2. What are your strongest points?**
- 3. Why do you want to work at Wipro?**
- 4. Why should we choose you?**
- 5. What are your weaknesses?**
- 6. What skills do you have for this role?**
- 7. How do you work under stress?**
- 8. Do you like collaboration and teamwork?**
- 9. Where do you see yourself in 5 years?**
- 10. Do you have any questions for us?**