

CEQ41
CEQ42
CEQ43
CEQ44
CEQ45
CEQ5
CEQ6
CEQ7
CEQ8
CEQ9

```
Enter the number of rows: 5
*****
*****
*****
*****
*****
```

Test Cases

1. $N = 3, \{12, 25, 30\}$
2. $N = 2, \{52, 25, 63\}$
3. $N = 3, \{17, 19, 11\}$
4. $N = -2, \{52, 60\}$
5. $N = 2, \{30, 45\}$

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```

1. #include <stdio.h>
2. #include <string.h>
3. #include <stdlib.h>
4. int gcd(int x, int y)
5. {
6.     int r = 0, a, b;
7.     a = (x > y) ? x : y;
8.     b = (x < y) ? x : y;
9.     r = b;
10.    while (a % b != 0)
11.    {
12.        r = a % b;
13.        a = b;
14.        b = r;
15.    }
16.    return r;
17. }
18. int lcm(int x, int y)
19. {
20.    int a;
21.    a = (x > y) ? x : y;
22.    while (1) {
23.        if (a % x == 0 && a % y == 0)
24.            return a;
25.        ++a;
26.    }
27. }
28. int main(int argc, char **argv)
29. {
30.    printf("Enter the two numbers: ");
31.    int x, y;
32.    scanf("%d", &x);
33.    scanf("%d", &y);
34.    printf("The GCD of two numbers is: %d", gcd(x, y));
35.    printf("The LCM of two numbers is: %d", lcm(x, y));
36.    return 0;
37. }

```


C Run Save Logout

Windows taskbar showing search bar, system tray icons (laptop, briefcase, network, volume, battery at 28%, weather at 29°C Partly cloudy), and date/time (4/10/2023, 2:32 PM).

Questions
CEQ8

Write a program using function to calculate the simple interest. Suppose the customer is a senior citizen. He is being offered 12 percent rate of interest; for all other customers, the ROI is 10 percent.

Sample Input:
Enter the principal amount: 200000
Enter the no of years: 3
Is customer senior citizen (y/n): n

Sample Output:
Interest: 60000

Test Cases

- 1. Principal: 2000 , Years: 0
- 2. Principal: 20000 , Years: -2
- 3. Principal: -2000 , Years: 2
- 4. Principal: 2 , Years: 2000
- 5. Principal: 0 , Years: 5



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Logout

```
1. #include<stdio.h>
2. int main()
3. {
4.     float p, interest, si;
5.     char c;
6.     printf("enter the principal amount:");
7.     scanf("%f", &p);
8.     printf("enter the number of years:");
9.     scanf("%i", &interest);
10.    printf("is customer senior citizen (y/n):");
11.    scanf("%c", &c);
12.    if(c=='n')
13.    {
14.        si=(p*interest*10)/100;
15.        printf("\nsimple interest is %f", si);
16.    }
17.    else if(c=='y')
18.    {
19.        si=(p*interest*12)/100;
20.        printf("\nsimple interest is %f", si);
21.    }
22.    return 0;
23. }
```

Your Input Goes Here...!!!

Your OUTPUT Goes Here...!!!

Questions
CMQ4
Write a program to print the all Odd numbers and number of even numbers in between M and N?
Sample Input:
M = 6
N = 15
Sample Output:
All Odd Numbers = 7,9,11,13

- Test Cases**
- 1. M = 100, N = 100
 - 2. M = 500, N = 100
 - 3. M = -5, N = 4
 - 4. M = 72, N = -72
 - 5. M = 0, N = 0

CMQ5

```
1. #include<stdio.h>
2. int main()
3. {
4.     int i,m,n;
5.     printf("Enter the start number:");
6.     scanf("%d",&m);
7.     printf("\nEnter the end number: ");
8.     scanf("%d",&n);
9.     printf("\nEven number:");
10.    for(i=m;i<n;i++)
11.    {
12.        if(i%2==0)
13.            printf("%d\t",i);
14.            printf("\nodd number: ");
15.            for(i=m;i<n;i++)
16.            {
17.                if(i%2!=0)
18.                {
19.                    printf("%d\t",i);
20.                }
21.            }
22.        }
23.    return 0;
24. }
```

Your Input Goes Here...!!!

Enter the start number:
Enter the end number:
Even number: 6
odd number:

Test Cases

Your Input Goes Here...!!!

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Questions

CMQ7

Write a C program to display the subject and mark information using Dynamic Memory Allocation for Structure.

Sample Input:
Enter the number of records: 2
Enter subject 1 and marks:
Science 82
Enter subject 2 and marks:
DSA 73

Sample Output :

Test Cases

Enter the number of records: 4 (Any details of subject and marks)
Enter the number of records: A
Enter the number of records: 1 (CPP 74.5)
Enter the number of records: 1 (CPP seventy)
Enter the number of records: 1 (233 75)

CMQ8

CMQ9

CMQ10

CMQ11

CMQ12

CMQ13

CMQ14

CMQ15

CMQ16

CMQ17

CMQ18

CMQ19

CMQ20

CMQ21

CMQ22

CMQ23

CMQ24

CMQ25

CMQ26

CMQ27

CMQ28

CMQ29

CMQ30

CMQ31

CMQ32

CMQ33

CMQ34

CMQ35

CMQ36

CMQ37

CMQ38

CMQ39

CMQ40

CMQ41

CMQ42

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CMQ79

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CMQ92

CMQ93

CMQ94

CMQ95

CMQ96

CMQ97

CMQ98

CMQ99

CMQ100

C

Run

Save

Logout

1. #include<stdio.h>
2. struct student
3. {
4. char subname[50];
5. int rec,i,marks;
6. };
7. int main()
8. {
9. char subname[50];
10. int rec,i,marks;
11. printf("enter the number of records:");
12. scanf("%d",&rec);
13. for(i=1;i<=rec;i++)
14. {
15. struct student s;
16. printf("\n enter subject %d:",i);
17. scanf("%s",&s.subname);
18. scanf("%d",&s.marks);
19. printf("\n subjects name %s",s.subname);
20. printf("\n marks %d",s.marks);
21. }
22. return 0;
23. }
24.
25.
26.
27.
28.
29.
30.
31.
32.
33.
34.
35.

Enter employee's salary: Enter employee's grade (A=1, B=2): Bonus amount:
1.12
Total salary: 17.12

Windows

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3

Test Cases

CEQ41
CEQ42
CEQ43
CEQ44
CEQ45
CEQ4
CEQ6
CEQ7
CEQ8
CEQ9

5

enter the fibonacci series
the fibonacci series:

01

```
Sample Output:
Student 1 details:
Name: AAA
Age : 25
```

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CEQ5
CEQ6
CEQ7
CEQ8
CEQ9
CMQ4
CMQ5
CMQ6
CMQ7
CMQ8

Your Input Goes Here...!!!

```
enter the number of students:enter the details of student 1:
name:age:enter the details of student 2:
name:age:enter the details of student 3:
name:age:enter the details of student 4:
name:age:enter
```

Questions

CHQ4

Write a program to print n prime numbers then find the nth Prime number.

Sample Input:
N = 3

Sample Output:
3rd Prime number is 5
3 prime numbers after 5 are: 7, 11, 13

Test Cases

1 N = 5
2 N = 9
3 N = 4
4 N = 11
5 N = 72

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CHQ4

C

Run

Save

Logout

```
1. #include <stdio.h>
2. int isPrime(int num) {
3.     int i;
4.     for(i = 2; i <= num/2; i++) {
5.         if(num % i == 0) {
6.             return 0;
7.         }
8.     }
9.     return 1;
10. }
11.
12. int main() {
13.     int n, count = 0, num = 2;
14.     printf("Enter the value of n: ");
15.     scanf("%d", &n);
16.     printf("The first %d prime numbers are:\n", n);
17.     while(count < n)
18.     {
19.         if (isPrime(num))
20.         {
21.             printf("%d ", num);
22.             count++;
23.             num++;
24.         }
25.         printf("The %dth prime number is", n);
26.         num=2;
27.         count=0;
28.         while(count<n)
29.         {
30.             if (isPrime(num))
31.             {
32.                 count++;
33.             }
34.             if(count==n)
35.             {
36.                 printf("%d.\n",num);
37.                 num++;
38.             }
39.         }
40.         return 0;
41. }
```

Your Input Goes Here...!!!

<pre>ExecutionFolder/192110246.c: In function 'main':
ExecutionFolder/192110246.c:19:13: warning: implicit declaration of function
'isPrime'; did you mean 'isprime'? [-Wimplicit-function-declaration]

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3

1234567891011121314151617181920212223242526272829303132333435

```
#include <stdio.h>

int checkArmstrong(int n1);
int checkPerfect(int n1);

int main()
{
    int n1;
    printf("\n\n Function : check Armstrong and perfect numbers :\n");
    printf("-----\n");

    printf(" Input any number: ");
    scanf("%d", &n1);
    if(checkArmstrong(n1))
    {
        printf(" The %d is an Armstrong number.\n", n1);
    }
    else
    {
        printf(" The %d is not an Armstrong number.\n", n1);
    }

    if(checkPerfect(n1))
    {
        printf(" The %d is a Perfect number.\n\n", n1);
    }
    else
    {
        printf(" The %d is not a Perfect number.\n\n", n1);
    }
    return 0;
}

int checkArmstrong(int n1)
{
    int ld, sum, num;
    sum = 0;
    num = n1;
    while(num!=0)
    {
        ld = num % 10;
        sum += ld * ld * ld;
        num = num/10;
    }
}
```

371

Function : check Armstrong and perfect numbers :
Input any number: The 0 is an Armstrong number.
The 0 is a Perfect number.

Questions
CHQ5
Write a program in C to check Armstrong and perfect numbers using the function.
Test Data :
Input any number: 371
Expected Output :
The 371 is an Armstrong number.
The 371 is not a Perfect number.

Test Cases

Logout

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CHQ5

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C

Run

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Logout

```
8. for(int i=0;i<=length;i++)
9. {
10. int count=1;
11. for(int j=i+1;j<length;j++)
12. {
13. if(arr[i]==arr[j])
14. {
15. count++;
16. fr[j]=visited;
17. }
18. }
19. if(fr[i]!=visited)
20. fr[i]=count;
21. }
22. printf("_____\n");
23. printf("element|frequency\n");
24. printf("_____\n");
25. for(int i=0;i<length;i++)
26. {
27. if(fr[i]!=visited)
28. {
29. printf(" %d",arr[i]);
30. printf(" | ");
31. printf(" %d\n",fr[i]);
32. }}
33. printf("_____\n");
34. return 0;
35. }
```

Your Input Goes Here...!!!

| element frequency | |
|-------------------|---|
| 1 | 2 |
| 2 | 4 |
| 8 | 1 |
| 3 | 1 |
| 5 | 1 |

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1. #include<stdio.h>

2. int main()

3. {

4. int i,j,rows;

5. printf("enter the number of rows: \n");

6. scanf("%d",&rows);

7. for(i=1;i<=rows;i++)

8. {

9. for(j=1;j<=i;j++)

10. {

11. printf("%d ",i);

12. }

13. printf("\n ");

14. }

15. }

16.

4

enter the number of rows:

1

2 2

3 3 3

4 4 4 4

C

Run

Save

Logout

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Questions
CEQ44

Write a program to find the square root of a perfect square number(print both the positive and negative values)

Sample Input:
Enter the number : 6561

Sample Output:
Square Root: 81, -81

Test Cases

1. 1225
2. 9001
3. 1627
4. -100
5. 0

CSQ41

C

Run

Save

Logout

```
1. #include<stdio.h>
2. #include<math.h>
3. int main()
4. {
5.     int number,sqroot;
6.     printf("enter a number:");
7.     scanf("%d",&number);
8.     sqroot=sqrt(number);
9.     printf("nsquare root of %d is %d and -%d",number,sqroot,sqroot);
10.    return 0;
11. }
12.
13.
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35.
```

6561

```
<pre>ExecutionFolder/192110246 c: In function 'main':
ExecutionFolder/192110246 c:7:13: error: 'number' undeclared (first use in this
function)
 7 | scanf("%d",&number);
  |
```

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3

Test Cases

1. $N = 2$, 158
2. $N = 3$, 14
3. $N = 4$, 0148
4. $N = 1$, 0004
5. $N = 4$, 7263

143

enter the number:sum of =30

Windows taskbar showing search bar, task view button, Google Chrome icon, battery level (27%), weather (29°C Partly cloudy), system tray icons (network, volume, etc.), and system clock (ENG IN, 2:33 PM, 4/10/2023).

Test Cases

CMQ4

Logout

Your Input Goes Here...!!!

```
<pre>ExecutionFolder/192110246.c: In function 'main':
ExecutionFolder/192110246.c:34:1: error: expected declaration or statement at
end of input
 34 | }
    | ^
</pre>
```

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Questions

CHQB

Find the H^{th} maximum number and H^{th} minimum number in an array and then find the sum of it and difference of it.

Sample Input:
Array of elements = {14, 16, 87, 36, 25, 89, 34}
H = 1
N = 3

Sample Output:
1st Maximum Number = 89
3rd Minimum Number = 25
Sum = 114

Test Cases

1 {16, 16, 16, 16, 16} M=0, N=1
2 {0, 0, 0, 0, 0} M=1, N=2
3 {-12, -78, -35, -42, -85} M=3, N=3
4 {15, 19, 34, 56, 12} M=6, N=5
5 {95, 45, 85, 75, 95} M=5, N=7

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CMQB

Logout

C

Run

Save

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```
#include<stdio.h>
#include<stdlib.h>
void bubble_sort(int arr[],int n)
{
    int i,j,temp;
    for(i=0;i<n-1;i++)
    {
        for(j=0;j<n-1;j++)
        {
            if(arr[j]>arr[j+1])
            {
                temp=arr[j];
                arr[j]=arr[j+1];
                arr[j+1]=temp;
            }
        }
    }
}
int main()
{
    int arr[]={3,4,1,7,2,9,5};
    int n=sizeof(arr)/sizeof(arr[0]);
    int m=3,n_val=2;
    bubble_sort(arr,n);
    int m_max=arr[n-m],n_min=arr[n_val-1];
    int sum=m_max + n_min,diff=m_max-n_min;
    printf("nth maximum number:%d\n",m_max);
    printf("nth minimum number:%d\n",n_min);
    printf("sum of nth maximum and nth minimum:%d\n",sum);
    printf("difference of nth maximum and nth minimum:%d\n",diff);
    return 0;
}
```

{14,16,87,36}

<pre>C:/CCPPComp/CCPP14/bin/. /lib/gcc/x86_64-w64-mingw32/10.3.0/. /../x86_64-w64-mingw32/bin/ld.exe: C:/CCPPComp/CCPP14/bin/. /lib/gcc/x86_64-w64-mingw32/10.3.0/. /../x86_64-w64-mingw32/

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Questions

CEQ41

Write a program that accepts a string from user and displays the same string after removing vowels from it.

Sample Input & Output:
Enter a string: we can play the game
The string without vowels is: w cn ply thgm

Test Cases

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CEQ41
CEQ42
CEQ43
CEQ44
CEQ45
CEQ46
CEQ47
CEQ48
CEQ49
CEQ50

C

Run

Save

Logout

```
1. #include<stdio.h>
2. #include<string.h>
3. int main()
4. {
5.     char str[100];
6.     int l,i;
7.     printf("enter a string:");
8.     scanf("%s",&str);
9.     l=strlen(str);
10.    for(i=1;i<=l;i++)
11.    {
12.        if(str[i]!='a' || 'e' || 'i' || 'o' || 'A' || 'E' || 'I' || 'O' || 'U')
13.        {
14.            printf("\n the string without vowels is : %s",str[i]);
15.        }
16.        else
17.        {
18.            printf("");
19.        }
20.    }
21.    return 0;
22. }
```

Your Input Goes Here....!!!

Runtime Error

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