

Questions
CEQ38.

Write a program to print the below pattern.

```
1
2 2
3 3 3
4 4 4 4
3 3 3
2 2
1
```

Test Cases

- CEQ37
- CEQ38
- CEQ39
- CEQ4
- CEQ40
- CEQ41
- CEQ42
- CEQ43
- CEQ44
- CEQ45

C Run Save

Logout

```
1. #include <stdio.h>
int main()
{
    int r,c;
    for(r=1;r<=4;r++)
    {
        for(c=1;c<=r;c++)
        {
            printf("%d ",r);
        }
        printf("\n");
    }
    for(r=3;r>=1;r--)
    {
        for(c=1;c<=r;c++)
        {
            printf("%d ",r);
        }
        printf("\n");
    }
    return 0;
}
```

Your Input Goes Here...!!!

```
1
2 2
3 3 3
4 4 4 4
3 3 3
2 2
1
```

Questions
CEQ45

Write a program to print inverted pyramid pattern.

Test Cases

- CEQ37
- CEQ38
- CEQ38
- CEQ4
- CEQ40
- CEQ41
- CEQ42
- CEQ43
- CEQ44
- CEQ45

C Run Save Logout

```
1. #include<stdio.h>
2. int main()
3. {
4.     int i,j,k,n=5;
5.     for(i=1;i<=n;i++)
6.     {
7.         for(j=0;j<i;j++)
8.         {
9.             printf(" ");
10.        }
11.        for(k=5;k>=i;k--)
12.        {
13.            printf("* ");
14.        }
15.        printf("\n");
16.    }
17.    return 0;
18. }
```

5

```
*****
****
***
**
*
```

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. 9801
- 3. 1827
- 4. -100
- 5. 0

- CEQ37
- CEQ38
- CEQ39
- CEQ4
- CEQ40
- CEQ41
- CEQ42
- CEQ43
- CEQ44
- CEQ45

Logout

```
1. #include <stdio.h>
2. #include <math.h>
3. int main()
4. {
5.     int a,b;
6.     scanf("%d",&a);
7.     b=sqrt(a);
8.     printf("\nthe positive root is= %d",b);
9.     printf("\nthe negative root is= -%d",b);
10.    return 0;
11. }
```

6561

the positive root is=9
the negative root is=-9

Questions
CEQ43.

Write a program to find the sum of digits of N digit number.

Sample Input:
Enter N value : 3
Enter 3 digit number: 143

Sample Output:
Sum of 3 digit number: 8

Test Cases

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

- CEQ37
- CEQ38
- CEQ39
- CEQ4
- CEQ40
- CEQ41
- CEQ42
- CEQ43
- CEQ44
- CEQ45

Logout

```
1. #include <stdio.h>
2. int main()
3. {
4.     int a,b,c,d,e,f,g,h,i,sum;
5.     scanf("%d",&a);
6.     b=a/10;
7.     c=a%10;
8.     d=b/10;
9.     e=b%10;
10.    f=d/10;
11.    g=d%10;
12.    h=f/10;
13.    i=f%10;
14.    sum=c+e+g+h+i;
15.    printf("%d",sum);
16.    return 0;
17. }
```

7263

8

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

- CEQ37
- CEQ38
- CEQ39
- CEQ40
- CEQ41
- CEQ42
- CEQ43
- CEQ44
- CEQ45

C Run Save Logout

```
1. #include<stdio.h>
int main()
{
char c[200],c1[200];
int k=0,i,j;
gets(c);
for(i=0,j=0;c[i]!='\0';i++)
{
if(c[i]!='a' || c[i]!='e' || c[i]!='i' || c[i]!='o' || c[i]!='u');
else
{
c1[j++]=c[i];
}
}
printf("\nstring after removing vowels:%s",c1);
}
```

we can play and fly

string after removing vowels:w cn ply nd fly

Questions
CEQ42

Write a program to print hollow Rectangle Dollar pattern?

Test Cases

- CEQ42
- CEQ43
- CEQ44
- CEQ45
- CEQ46
- CEQ47
- CEQ48
- CEQ49
- CEQ50
- CEQ51
- CEQ52
- CEQ53
- CEQ54
- CEQ55

C

Run

Save

Logout

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

4

~~~~~  
\$ \$ \$ \$  
\$ \$  
\$ \$  
~~~~~

Questions

CEQ40.

Write a program to arrange the letters of the word alphabetically in reverse order.

Sample Input:
Enter the word : MOSQUE

Sample Output:
Alphabetical Order: U S Q O M E

Test Cases

1. HYPOTHECATION
2. MATRICULATION
3. MANIPULATION
4. SATISFACTION
5. DEDICATION

CEQ37

CEQ38

CEQ39

CEQ4

CEQ40

CEQ41

CEQ42

CEQ43

CEQ44

CEQ45

C

Run

Save

Logout

```
1. #include<stdio.h>
#include<string.h>
int main()
{
    char str[100],chtemp;
    int i,j,len;
    gets(str);
    len=strlen(str);
    for(i=0;i<len;i++)
    {
        for(j=0;j<(len-1);j++)
        {
            if(str[j]<str[j+1])
            {
                chtemp=str[j];
                str[j]=str[j+1];
                str[j+1]=chtemp;
            }
        }
    }
    printf("\n same string in desending order:\n%s ",str);
    return 0;
}
```

MOSQUE

same string in desending order:
USQOME

Questions
CEQ4.

Write a program to find whether the person is eligible for vote or not. And if that particular person is not eligible, then print how many year

Sample Input:
Enter your age:7

Sample output:
You are allowed to vote after 11 years

Test Cases

- 1. 25
- 2. Eighteen
- 3. 12
- 4. -18
- 5. 34.5

- CEQ37
- CEQ38
- CEQ39
- CEQ4
- CEQ40
- CEQ41
- CEQ42
- CEQ43
- CEQ44
- CEQ45

C

Run

Save

Logout

```
1. #include <stdio.h>
int main()
{
    int age;
    scanf("%d",&age);
    if(age<18)
    {
        printf("\n you are not eligible for voting");
    }
    else
    {
        printf("\n you are eligible for voting");
    }
    return 0;
}
```

19

you are not eligible for voting

Questions
CEQ39

Program to find whether the given number is Armstrong number or not

Sample Input:
Enter number : 153

Sample Output:
Given number is Armstrong number

Test Cases

- 1. 370
- 2. 1
- 3. 371
- 4. 145678
- 5. 0.21345

- CEQ37
- CEQ38
- CEQ39
- CEQ4
- CEQ40
- CEQ41
- CEQ42
- CEQ43
- CEQ44
- CEQ45

C Run Save

Logout

```
1. #include<stdio.h>
int main()
{
    int num,org_num,rem,res=0;
    scanf("%d",&num);
    org_num=num;

    while(org_num!=0)
    {
        rem=org_num%10;
        res+=rem*rem*rem;
        org_num/=10;
    }
    if(res==num)
        printf("%d is an armstrong number",num);
    else
        printf("%d is not an armstrong number",num);
    return 0;
}
```

153

153 is an armstrong number

Questions
CEQ37.

Write a program that finds whether a given character is present in a string or not.
In case it is present it prints the index at which it is present.
Do not use built-in find functions to search the character.

Sample Input:
Enter the string: I am a programmer
Enter the character to be searched: p

Sample Output:
P is found in string at index: 8
Note: Check for non-available Character in the given statement as Hidden Test case.

Test Cases

- CEQ37
- CEQ38
- CEQ39
- CEQ40
- CEQ41
- CEQ42
- CEQ43
- CEQ44
- CEQ45

C Run Save

Logout

```
1. #include <stdio.h>
#include <string.h>
int main()
{
    char a,word[50];
    int i,freq=0,flag=0;

    scanf("%s",word);

    scanf("%c",&a);
    printf("\npositions of '%c' in '%s' are:",a,word);
    for(i=0;i<strlen(word);i++)
    {
        if(word[i]==a)
        {
            flag=1;
            printf("%d",i+1);
            freq++;
        }
    }
    if(flag)
    {
        printf("\n char '%c' occured for '%d'times.\n",a,freq);
    }
    else
    {
        printf("none\n");
    }
    return 0;
}
```

lakshmanan
s

positions of '
' in 'lakshmanan' are:none