

1. Print the following pattern

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

Taking the number of lines 'n' as input. Here n=5.

```
#include<stdio.h>
void main()
{
    int n,i,j;
    printf("\n Enter number of lines of pattern to print:");
    scanf("%d",&n);
    for(i=1;i<=n;i++)
    {
        for(j=1;j<=n;j++)
            printf("*");
        printf("\n");
    }
}
```

2. Print the following pattern

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

Taking the number of lines 'n' as input. Here n=5.

```
#include<stdio.h>
void main()
{
    int n,i,j;
    printf("\n Enter number of lines of pattern to print:");
    scanf("%d",&n);
    for(i=1;i<=n;i++)
    {
        for(j=1;j<=i;j++)
            printf("*");
        printf("\n");
    }
}
```

3. Print the following pattern

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

Taking the number of lines 'n' as input. Here n=4.

```
#include<stdio.h>
void main()
{
    int n,i,j;
    printf("\n Enter number of lines of pattern to print:");
    scanf("%d",&n);
    for(i=1;i<=n;i++)
    {
        for(j=1;j<=i;j++)
            printf("%d\t",i);
        printf("\n");
    }
}
```

4. Print the following pattern

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

Taking the number of lines 'n' as input. Here n=4.

```
#include<stdio.h>
void main()
{
    int n,i,j;
    printf("\n Enter number of lines of pattern to print:");
    scanf("%d",&n);
    for(i=1;i<=n;i++)
    {
        for(j=1;j<=i;j++)
            printf("%d\t",n-i+1);
        printf("\n");
    }
}
```

5. Print the following pattern

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

Taking the number of lines 'n' as input. Here n=4.

```
#include<stdio.h>
void main()
{
    int n,i,j;
    printf("\n Enter number of lines of pattern to print:");
    scanf("%d",&n);
    for(i=1;i<=n;i++)
    {
        for(j=1;j<=i;j++)
            printf("%d\t",j);
        printf("\n");
    }
}
```

6. Print the following pattern

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

Taking the number of lines 'n' as input. Here n=4.

```
#include<stdio.h>
void main()
{
    int n,i,j;
    printf("\n Enter number of lines of pattern to print:");
    scanf("%d",&n);
    for(i=1;i<=n;i++)
    {
        for(j=1;j<=i;j++)
            printf("%d\t",n-j+1);
        printf("\n");
    }
}
```

7. Print the following pattern (Flyod's triangle)

```
1
2 3
4 5 6
7 8 9 10
```

Taking the number of lines 'n' as input. Here n=4.

```
#include<stdio.h>
void main()
{
    int n,i,j,d=1;
    printf("\n Enter number of lines of pattern to print:");
    scanf("%d",&n);
    for(i=1;i<=n;i++)
    {
        for(j=1;j<=i;j++,d++)
            printf("%d\t",d);
        printf("\n");
    }
}
```

8. Print the following pattern

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

Taking the number of lines 'n' as input. Here n=4.

```
#include<stdio.h>
void main()
{
    int n,i,j;
    printf("\n Enter number of lines of pattern to print:");
    scanf("%d",&n);
    for(i=1;i<=n;i++)
    {
        for(j=1;j<=n-i+1;j++)
            printf("*");
        printf("\n");
    }
}
```

9. Print the following pattern

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

Taking the number of lines 'n' as input. Here n=4.

```
void main()
{
    int n,i,j;
    printf("\n Enter number of lines of pattern to print:");
    scanf("%d",&n);
    for(i=1;i<=n;i++)
    {
        for(j=1;j<=n-i+1;j++)
            printf("%d\t",i);
        printf("\n");
    }
}
```

10. Print the following pattern

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

Taking the number of lines 'n' as input. Here n=4.

```
#include<stdio.h>
void main()
{
    int n,i,j;
    printf("\n Enter number of lines of pattern to print:");
    scanf("%d",&n);
    for(i=1;i<=n;i++)
    {
        for(j=1;j<=n-i+1;j++)
            printf("%d\t",n-i+1);
        printf("\n");
    }
}
```

11. Print the following pattern

1 2 3 4

1 2 3

1 2

1

Taking the number of lines 'n' as input. Here n=4.

```
#include<stdio.h>
void main()
{
    int n,i,j;
    printf("\n Enter number of lines of pattern to print:");
    scanf("%d",&n);
    for(i=1;i<=n;i++)
    {
        for(j=1;j<=n-i+1;j++)
            printf("%d\t",j);
        printf("\n");
    }
}
```

12. Print the following pattern

4 3 2 1

4 3 2

4 3

4

Taking the number of lines 'n' as input. Here n=4.

```
#include<stdio.h>
void main()
{
    int n,i,j;
    printf("\n Enter number of lines of pattern to print:");
    scanf("%d",&n);
    for(i=1;i<=n;i++)
    {
        for(j=1;j<=n-i+1;j++)
            printf("%d\t",n-j+1);
        printf("\n");
    }
}
```

13. Print the following pattern

```
1 2 3 4
5 6 7
8 9
10
```

Taking the number of lines 'n' as input. Here n=4.

```
#include<stdio.h>
void main()
{
    int n,i,j,d=1;
    printf("\n Enter number of lines of pattern to print:");
    scanf("%d",&n);
    for(i=1;i<=n;i++)
    {
        for(j=1;j<=n-i+1;j++,d++)
            printf("%d\t",d);
        printf("\n");
    }
}
```

14. Print the following pattern

```
* //3 spaces and 1 *
** //2 spaces and 2 *
***
****
```

Taking the number of lines 'n' as input. Here n=4.

```
#include<stdio.h>
void main()
{
    int n,i,j;
    printf("\n Enter number of lines of pattern to print:");
    scanf("%d",&n);
    for(i=1;i<=n;i++)
    {
        for(j=1;j<=n-i;j++)
            printf(" ");
        for(j=1;j<=i;j++)
            printf("*");
        printf("\n");
    }
}
```

Or

Reduce the number of for loops as mentioned in the following alternate solution.

```
void main()
{
    int n,i,j;
    printf("\n Enter number of lines of pattern to print:");
    scanf("%d",&n);
    for(i=1;i<=n;i++)
    {
        for(j=1;j<=n;j++)
        {
            if(j<=n-i)
                printf(" ");
            else
                printf("*");
        }
        printf("\n");
    }
}
```

15. Print the following pattern

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

Taking the number of lines 'n' as input. Here n=4.

```
void main()
{
    int n,i,j;
    printf("\n Enter number of lines of pattern to print:");
    scanf("%d",&n);
    for(i=1;i<=n;i++)
    {
        for(j=1;j<=n;j++)
        {
            if(j<=n-i)
                printf(" \t");
            else
                printf("%2d\t",i);
        }
        printf("\n");
    }
}
```


16. Print the following pattern

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

Taking the number of lines 'n' as input. Here n=4.

```
void main()
{
    int n,i,j;
    printf("\n Enter number of lines of pattern to print:");
    scanf("%d",&n);
    for(i=1;i<=n;i++)
    {
        for(j=1;j<=n;j++)
        {
            if(j<=n-i)
                printf(" \t");
            else
                printf("%2d\t",n-i+1);
        }
        printf("\n");
    }
}
```

17. Print the following pattern

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

Taking the number of lines 'n' as input. Here n=4.

```
void main()
{
    int n,i,j;
    printf("\n Enter number of lines of pattern to print:");
    scanf("%d",&n);
    for(i=1;i<=n;i++)
    {
        for(j=1;j<=n-i;j++)
            printf(" \t");
```

```

        for(j=1;j<=i;j++)
            printf("%2d\t",j);
        printf("\n");
    }
}

```

18. Print the following pattern

```

      4
     3 4
    2 3 4
   1 2 3 4

```

Taking the number of lines 'n' as input. Here n=4.

```

void main()
{
    int n,i,j;
    printf("\n Enter number of lines of pattern to print:");
    scanf("%d",&n);
    for(i=1;i<=n;i++)
    {
        for(j=1;j<=n;j++)
        {
            if(j<=n-i)
                printf(" \t");
            else
                printf("%2d\t",j);
        }
        printf("\n");
    }
}

```

19. Print the following pattern

```

      4
     4 3
    4 3 2
   4 3 2 1

```

Taking the number of lines 'n' as input. Here n=4.

```

void main()
{
    int n,i,j;

```

```

printf("\n Enter number of lines of pattern to print:");
scanf("%d",&n);
for(i=1;i<=n;i++)
{
    for(j=1;j<=n-i;j++)
        printf(" \t");
    for(j=1;j<=i;j++)
        printf("%2d\t",n-j+1);
    printf("\n");
}
}

```

20. Print the following pattern

```

      1
     2 1
    3 2 1
   4 3 2 1

```

Taking the number of lines 'n' as input. Here n=4.

```

void main()
{
    int n,i,j;

    printf("\n Enter number of lines of pattern to print:");
    scanf("%d",&n);
    for(i=1;i<=n;i++)
    {
        for(j=1;j<=n;j++)
        {
            if(j<=n-i)
                printf(" \t");
            else
                printf("%2d\t",n-j+1);

```

```

    }
    printf("\n");
}
}

```

21. Print the following pattern

```

      1
     2 3
    4 5 6
   7 8 9 10

```

Taking the number of lines 'n' as input. Here n=4.

```

void main()
{
    int n,i,j,d=1;
    printf("\n Enter number of lines of pattern to print:");
    scanf("%d",&n);
    for(i=1;i<=n;i++)
    {
        for(j=1;j<=n-i;j++)
            printf(" \t");
        for(j=1;j<=i;j++,d++)
            printf("%2d\t",d);
        printf("\n");
    }
}

```

22. Print the following pattern

```

****
***
**
*

```

Taking the number of lines 'n' as input. Here n=4.

```

void main()
{
    int n,i,j;
    printf("\n Enter number of lines of pattern to print:");
    scanf("%d",&n);
    for(i=1;i<=n;i++)
    {
        for(j=1;j<=i-1;j++)
            printf(" ");
        for(j=1;j<=n-i+1;j++)
            printf("*");
        printf("\n");
    }
}

```

Or

Reduce the number of for loops as mentioned in the following alternate solution.

```

void main()
{
    int n,i,j;
    printf("\n Enter number of lines of pattern to print:");
    scanf("%d",&n);
    for(i=1;i<=n;i++)
    {
        for(j=1;j<=n;j++)
        {
            if(j<=i-1)
                printf(" ");
            else
                printf("*");
        }
        printf("\n");
    }
}

```

23. Printing the following pattern

```

1 1 1 1
2 2 2
3 3
4

```

Take input as n which denotes the no. of lines to be printed.

```

void main()
{
    int n,i,j;
    printf("\n Enter number of lines of pattern to print:");
    scanf("%d",&n);
    for(i=1;i<=n;i++)
    {
        for(j=1;j<=n;j++)
        {
            if(j<=i-1)
                printf(" \t");
            else
                printf("%2d\t",i);
        }
        printf("\n");
    }
}

```

24. Printing the following pattern

```

4 4 4 4
3 3 3
2 2
1

```

Take input as n which denotes the no. of lines to be printed

```

void main()
{
    int n,i,j;
    printf("\n Enter number of lines of pattern to print:");
    scanf("%d",&n);
    for(i=1;i<=n;i++)
    {
        for(j=1;j<=n;j++)
        {
            if(j<=i-1)
                printf(" \t");
            else
                printf("%2d\t",n-i+1);
        }
        printf("\n");
    }
}

```

25. Printing the following pattern

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

Take input as n which denotes the no. of lines to be printed

```
void main()
{
    int n,i,j;
    printf("\n Enter number of lines of pattern to print:");
    scanf("%d",&n);
    for(i=1;i<=n;i++)
    {
        for(j=1;j<=i-1;j++)
            printf(" \t");
        for(j=1;j<=n-i+1;j++)
            printf("%2d\t",j);
        printf("\n");
    }
}
```

26. Printing the following pattern

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

Take input as n which denotes the no. of lines to be printed

```
void main()
{
    int n,i,j;
    printf("\n Enter number of lines of pattern to print:");
    scanf("%d",&n);
    for(i=1;i<=n;i++)
    {
        for(j=1;j<=n;j++)
        {
            if(j<=i-1)
                printf(" \t");
            else
                printf("%2d\t",j);
        }
        printf("\n");
    }
}
```

27. Printing the following pattern

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

Take input as n which denotes the no. of lines to be printed

```
void main()
{
    int n,i,j;
    printf("\n Enter number of lines of pattern to print:");
    scanf("%d",&n);
    for(i=1;i<=n;i++)
    {
        for(j=1;j<=i-1;j++)
            printf(" \t");
        for(j=1;j<=n-i+1;j++)
            printf("%2d\t",n-j+1);
        printf("\n");
    }
}
```

28. Printing the following pattern

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

Take input as n which denotes the no. of lines to be printed

```
void main()
{
    int n,i,j;
    printf("\n Enter number of lines of pattern to print:");
    scanf("%d",&n);
    for(i=1;i<=n;i++)
    {
        for(j=1;j<=n;j++)
        {
            if(j<=i-1)
                printf(" \t");
            else
                printf("%2d\t",n-j+1);
        }
        printf("\n");
    }
}
```