

```

/*
 *
 * *
 * * *
 * * * *
 * * * * *
 */
#include<stdio.h>
int main(){
    int r;
    printf("Enter number of Row: ");
    scanf("%d",&r);
    for(int i=1; i<=r; i++){
        for(int j=1; j<=i; j++){
            printf("* ");
        }
        printf("\n");
    }
    return 0;
}

```

```

// //////////////////////////////////////
/*

```

```

1
2 3
4 5 6
7 8 9 10
11 12 13 14 15
*/

```

```

#include<stdio.h>
int main(){
    int r,sum=1;
    printf("Enter number of row: ");
    scanf("%d",&r);
    for(int i=1; i<=r; i++){
        // sum = sum+i;
        for(int j=1; j<=i; j++){
            // sum = sum+j;
            printf("%d ",sum);
            sum = sum+1;
        }
        printf("\n");
    }
    return 0;
}

```

```

// //////////////////////////////////////
/*

```

```

 *
 * * *
 * * * * *
 * * * * * * *
 * * * * * * * * *
 * * * * * * *
 * * * * *
 * * *
 *
 */

```

```

#include<stdio.h>
int main() {

```

```

int i, space, rows, rrows, s = 0;
printf("Enter the number of rows: ");
scanf("%d", &rows);
rrows = rows/2;
for (i = 1; i <= rrows; i++, s = 0) {
    for (space = 1; space <= rows - i; space++) {
        printf(" ");
    }
    while (s != 2 * i - 1) {
        printf("* ");
        s++;
    }
    printf("\n");
}
for (i = rrows-1; i >= 1; i--, s = 0) {
    for (space = 1; space <= rows - i; space++) {
        printf(" ");
    }
    while (s != 2 * i - 1) {
        printf("* ");
        s++;
    }
    printf("\n");
}
return 0;
}
// ////////////////////////////////////
/*
5 4 3 2 1
5 4 3 2
5 4 3
5 4
5
*/
#include<stdio.h>
int main(){
    int r;
    printf("Enter number of rows: ");
    scanf("%d",&r);
    for(int i=1; i<=r; i++){
        for(int j=r; j>=i; j--){
            printf("%d ",j);
        }
        printf("\n");
    }
    return 0;
}
// ////////////////////////////////////
/*
1 2 3 4 5
1 2 3 4
1 2 3
1 2
1
*/
#include<stdio.h>
int main(){
    int r;

```

```

    printf("Enter number of rows: ");
    scanf("%d",&r);
    for(int i=r; i>=1; i--){
        for(int j=1; j<=i; j++){
            printf("%d ",j);
        }
        printf("\n");
    }
    return 0;
}
// //////////////////////////////////////
/*
5 4 3 2 1
5 4 3 2
5 4 3
5 4
5
*/
#include<stdio.h>
int main(){
    int r;
    printf("Enter number of rows: ");
    scanf("%d",&r);
    for(int i=1; i<=r; i++){
        for(int j=r; j>=i; j--){
            printf("%d ",j);
        }
        printf("\n");
    }
    return 0;
}
// //////////////////////////////////
/*
A
B C
D E F
G H I J
K L M N O
*/
#include<stdio.h>
int main(){
    int r,v;
    char ch;
    printf("Enter the letter: ");
    scanf("%c",&ch);
    printf("Enter number of rows: ");
    scanf("%d",&r);
    v = ch;
    for(int i=1;i<=r;i++){
        for(int j=1; j<=i; j++){
            printf("%c ",v);
            v++;
        }
        printf("\n");
    }
    return 0;
}
// //////////////////////////////////

```

```

/*
A
B B
C C C
D D D D
E E E E E
*/
#include<stdio.h>
int main(){
    int r,v;
    char ch;
    printf("Enter the letter: ");
    scanf("%c",&ch);
    printf("Enter number of rows: ");
    scanf("%d",&r);
    v = ch;
    for(int i=1;i<=r;i++){
        for(int j=1; j<=i; j++){
            printf("%c ",v);
        }
        v++;
        printf("\n");
    }
    return 0;
}
// //////////////////////////////////////
/* Reverse Floyd's Triangle
15 14 13 12 11
10 9 8 7
6 5 4
3 2
1
*/
#include<stdio.h>
int main(){
    int r,v;
    printf("Enter number of row: ");
    scanf("%d",&r);
    v = r*(r+1)/2;
    for(int i=r; i>=1; i--){
        for(int j=1; j<=i; j++){
            printf("%d ",v);
            v = v-1;
        }
        printf("\n");
    }
    return 0;
}
// //////////////////////////////////////
/*
*
* *
*  *
*  *
*****
*/
#include<stdio.h>
int main(){

```

```

int n, x, y, s;
printf("Enter number of rows to show the star pattern: ");
scanf("%d",&n);
for(x = 1; x <= n; x++){
//for loop to put space in pyramid
for (s = x; s < n; s++)
    printf(" ");          //for loop to print star
for(y = 1; y <= (2 * n - 1); y++){
    if(x == n || y == 1 || y == 2 * x - 1)
        printf("*");
    else
        printf(" ");
}
//ending line after each row
printf("\n");
}
return 0;
}
// //////////////////////////////////////
/*
* * * * *
*      *
*      *
*      *
* * * * *
*/
#include <stdio.h>
int main()
{
    int num;
    printf("Enter the number: ");
    scanf("%d", &num);
    for (int i = 1; i <= num; i++)
    {
        for (int j = 1; j <= num; j++)
        {
            if (i == 1 || i == num || j == 1 || j == num)
            {
                printf("* ", num);
            }
            else
            {
                printf("  ", num - i);
            }
        }
        printf("\n");
    }
}
// //////////////////////////////////////
/*
      *
    * * *
  * * * * *
* * * * * * *
* * * * * * *
* * * * *
  * * *
    * * *
      *

```

```

        *
*/
#include <stdio.h>
int main() {
    int i, space, rows, rrows, s = 0;
    printf("Enter the number of rows: ");
    scanf("%d", &rows);
    rrows = rows/2;
    for (i = 1; i <= rrows; i++, s = 0) {
        for (space = 1; space <= rows - i; space++) {
            printf(" ");
        }
        while (s != 2 * i - 1) {
            printf("* ");
            s++;
        }
        printf("\n");
    }
    for (i = rrows-1; i >= 1; i--, s = 0) {
        for (space = 1; space <= rows - i; space++) {
            printf(" ");
        }
        while (s != 2 * i - 1) {
            printf("* ");
            s++;
        }
        printf("\n");
    }
    return 0;
}
// //////////////////////////////////////
/*
1
123
12345
123
1
*/

```

```

*/
#include <stdio.h>
int main()
{
    // declare the local variables
    int i, j, rows, k;
    printf (" Enter a number to define the rows: ");
    scanf("%d", &rows);
    int space = rows-1, num=1;
    printf("\n");
    for (i = 1; i <= rows; i++)
    {
        for (j = 1; j <= space; j++)
        {
            printf(" ");
        }
        for ( k= 1; k <= num; k++)
        {
            printf("%d", k);
        }
        if(space > i)
    }
}

```

```

        {
            space = space -1;
            num = num+2;
        }
        if(space <i)
        {
            space = space + 1;
            num = num -2;
        }
        printf("\n");
    }
}
// ////////////////////////////////////////
/*
    1
   2 3
  4 5 6
 7 8 9 10
*/
#include<stdio.h>
int main()
{
    int i, j, rows, k,v = 1;
    printf ("Enter a number of rows: ");
    scanf("%d", &rows);
    printf("\n");
    for (i = 1; i <= rows; i++)
    {
        for (j = i; j < rows; j++)
        {
            printf(" ");
        }
        for (k = 1; k <= i; k++)
        {
            printf("%d ",v); // print the Star
            v++;
        }
        printf("\n");
    }
    return 0;
}
// ////////////////////////////////////////
/*
*****
*****
****
***
**
*
*/
#include<stdio.h>
int main(){
    int r;
    printf("Enter number of rows: ");
    scanf("%d",&r);
    for(int i=r; i>=1; i--){
        for(int j=1; j<=i; j++){
            printf(" ");

```

```
    }
    for(int k=r; k>=i; k--){
        printf("* ");
    }
    printf("\n");
}
for(int i=0; i<=r; i++){
    for(int j=1; j<=i; j++){
        printf(" ");
    }
    for(int k=r; k>=i; k--){
        printf("* ");
    }
    printf("\n");
}
return 0;
}
```