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C# Console • For Loop • Loops / Iteration Statement

# Print Star Pattern Program in C#

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## Star Series and Patterns Programs in C#

Half, Full, Incremented and Decrement Stars Series, Pyramid Pattern programs

### Program 1:

```
1
2     static void Main(string[] args)
3     {
4         int i, j;
5         int MAX = 10;
6
7         for (i = 0; i < MAX; i++)
8         {
9             for (j = 0; j <= i; j++)
10            {
11                Console.Write("*");
12            }
13            Console.WriteLine("\n");
14        }
15        Console.ReadLine();
16    }
17
```

Output:

```
1
2  *
3  **
4  ***
5  ****
6  *****
7  ****
8  ***
```



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### Program 2:

```
1
2     static void Main(string[] args)
3     {
4         int i, j;
5         int MAX = 10;
6
7         for (i = MAX; i >= 0; i--)
8         {
9             for (j = 0; j <= i; j++)
10            {
11                Console.Write("*");
12            }
13            Console.WriteLine("\n");
14        }
15        Console.ReadLine();
16    }
17
```

Output:

```
1
2  *****
3  *****
4  *****
5  *****
6  *****
7  *****
8  *****
9  *****
10 *****
11 *****
12 *****
13
```

### Program 3:

```
1
2     static void Main(string[] args)
3     {
4         int i, j;
5         int space = 10;
6         int MAX = space;
7
8         for (i = 0; i < MAX; i++)
9         {
10
11             for (j = 0; j < space; j++)
12             {
13                 Console.Write(" ");
14             }
15             for (j = 0; j <= i; j++)
16             {
17                 Console.Write("* ");
18             }
19
20             Console.WriteLine("\n");
21             space--;
22         }
23         Console.ReadLine();
24     }
25
```



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```
1
2      *
3     **
4    ***
5   ****
6  *****
7 *****
8  *****
9 *****
10 *****
11 *****
12
```

#### Program 4:

```
1
2     static void Main(string[] args)
3     {
4         int i, j;
5         int space = 10;
6         int MAX = space+1;
7
8         for (i = 0; i < MAX; i++)
9         {
10
11             for (j = 0; j < space; j++)
12             {
13                 Console.Write(" ");
14             }
15             for (j = 0; j <= i; j++)
16             {
17                 Console.Write("* ");
18             }
19
20             Console.WriteLine("\n");
21             space--;
22         }
23
24         space = 0;
25
26         for (i = MAX; i > 0; i--)
27         {
28
29             for (j = 0; j < space; j++)
30             {
31                 Console.Write(" ");
32             }
33             for (j = 0; j < i; j++)
34             {
35                 Console.Write("* ");
36             }
37
38             Console.WriteLine("\n");
39             space++;
40         }
41         Console.ReadLine();
42     }
43
```

Output:

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



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### Program 5:

```
1
2     static void Main(string[] args)
3     {
4         int i, j;
5         int space = 0;
6         int MAX = 10;
7
8         for (i = MAX; i > 0; i--)
9         {
10
11             for (j = 0; j < i; j++)
12             {
13                 Console.Write("*");
14             }
15             for (j = 0; j < space; j++)
16             {
17                 Console.Write(" ");
18             }
19             for (j = 0; j < i; j++)
20             {
21                 Console.Write("*");
22             }
23             Console.Write("\n");
24             space += 2;
25         }
26         Console.ReadLine();
27     }
28
29
30
31
```

Output:

```
1
2 *****
3 *****
4 *****
5 *****
6 *****
7 *****
8 *****
9 *****
10 *****
11 *****
12 *****
```

### Program 6:

```
1
2     static void Main(string[] args)
```





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	7			{					
	8								
	9								
	10								
	11								
	12								
	13								
	14								
	15								

Output:

```
1
2 *****
3 *****
4 *****
5 *****
6 *****
7
```

Program 7:

```
1
2 static void Main(string[] args)
3 {
4     int i, j;
5     int MAX = 10;
6     for (i = 1; i <= MAX; i++)
7     {
8         for (j = 1; j <= i; j++)
9         {
10             if (j == 1 || j == i || i == MAX)
11             {
12                 Console.Write("*");
13             }
14             else
15             {
16                 Console.Write(" ");
17             }
18         }
19         Console.WriteLine();
20     }
21     Console.ReadLine();
22 }
23
```

Output:

```
1
2 *
3 **
4 * *
5 *  *
6 *   *
7 *    *
8 *     *
9 *      *
10 *       *
11 *****
12
```

Program 8:



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```
1, j;  
int MAX = 10;  
for (i = 1; i <= MAX; i++)  
{  
    for (j = i; j <= MAX; j++)  
    {  
        Console.Write(" ");  
    }  
    for (j = 1; j <= i; j++)  
    {  
        if (i == MAX || j == 1 || j == i)  
        {  
            Console.Write("*");  
        }  
        else  
        {  
            Console.Write(" ");  
        }  
    }  
    Console.WriteLine();  
}  
Console.ReadLine();  
}
```

Output:

```
1  
2  
3  
4  
5  
6  
7  
8  
9  
10  
11  
12  
*  
**  
* *  
* *  
* *  
* *  
* *  
* *  
* *  
* *  
*****
```

Program 9:

```
1  
2 static void Main(string[] args)  
3 {  
4     int i, j;  
5     int MAX = 10;  
6     for (i = 1; i <= MAX; i++)  
7     {  
8         for (j = 1; j <= i; j++)  
9         {  
10            Console.Write("*");  
11        }  
12        Console.WriteLine();  
13    }  
14    for (i = MAX; i >= 1; i--)  
15    {  
16        for (j = 1; j < i; j++)  
17        {  
18            Console.Write("*");  
19        }  
20        Console.WriteLine();  
21    }  
22    Console.ReadLine();  
23 }  
24
```

Output:



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Pseudocode



```
4  >>>
5  >>>>
6  >>>>>
7  >>>>>>
8  >>>>>>>
9  >>>>>>>>
10 >>>>>>>>>
11 >>>>>>>>>>
12 >>>>>>>>>>>
13 >>>>>>>>>>>>
14 >>>>>>>>>>>>>
15 >>>>>>>>>>>>>>
16 >>>>>>>>>>>>>>>
17 >>>>>>>>>>>>>>>>
18 >>>>>>>>>>>>>>>>>
19 >>>>>>>>>>>>>>>>>>
20 >
21
```

### Program 10:

```
1
2 static void Main(string[] args)
3 {
4     int i, j, k;
5     int MAX = 10;
6
7     for (i = 0; i <= MAX; i++)
8     {
9         for (j = MAX; j > i; j--)
10             Console.Write(" ");
11
12         for (k = 0; k <= i; k++)
13         {
14             if (k % 2 == 0)
15                 Console.Write("0");
16             else
17                 Console.Write("1");
18         }
19         Console.WriteLine("\n");
20     }
21     Console.ReadLine();
22 }
23
```

Output:

```
1
2      0
3      01
4      010
5      0101
6      01010
7      010101
8      0101010
9      01010101
10     010101010
11     0101010101
12     01010101010
13
```

### Program 11:

```
1
2 static void Main(string[] args)
3 {
```





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```
for (l = 1; l <= MAX; l++)
{
    for (j = space; j >= i; j--)
    {
        Console.WriteLine(j);
    }

    for (k = 1; k <= l; k++)
    {
        Console.Write(k);
    }
    l = l + 2;
    Console.WriteLine("\n");
}
Console.ReadLine();
```

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Output:

```
1
2      1
3     123
4    12345
5   1234567
6  123456789
7
```

Program 12:

```
1
2     static void Main(string[] args)
3     {
4         int i, j;
5         char ch = 'A';
6         int MAX = 10;
7
8         for (i = 1; i <= MAX; i++)
9         {
10            for (j = 1; j <= i; j++)
11            {
12                Console.Write(ch++);
13            }
14            Console.WriteLine("\n");
15        }
16        Console.ReadLine();
17    }
18
```

Output:

```
1
2  A
3  BC
4  DEF
5  GHIJ
6  KLMNO
7  PQRSTU
8  VWXYZ[\
9  ]^_`abcd
10 efghijklm
11 nopqrstuvwxyz
12
```

Program 13:







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```
int i, j;  
int space = 10;  
int MAX = space;  
for (i = 1; i <= MAX; i++)  
{  
    for (j = MAX; j > i; j--)  
    {  
        Console.Write(" ");  
    }  
    Console.Write("*");  
    for (j = 1; j < (i - 1) * 2; j++)  
    {  
        Console.Write(" ");  
    }  
    if (i == 1) Console.WriteLine();  
    else  
        Console.WriteLine("*");  
}
```

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Pseudocode



Output:

```
1  
2  
3  
4  
5  
6  
7  
8  
9  
10  
11  
12  
13  
14  
15  
16  
17  
18  
19  
20  
21  
22
```

Program 14:

```
1  
2 static void Main(string[] args)  
3 {  
4     int i, j;  
5     int MAX = 10;  
6     for (i = 1; i <= MAX; i++)  
7     {  
8         for (j = i; j < MAX; j++)
```

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```
for (j = 1; j <= (2 * i - 1); j++)
{
    if (i == MAX || j == 1 || j == (2 * i - 1))
    {
        Console.WriteLine("*");
    }
    else
    {
        Console.Write(" ");
    }
}
Console.WriteLine();
Console.ReadLine();
}
```

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Output:

```
1
2      *
3     * *
4    * * *
5   * * * *
6  * * * * *
7 * * * * *
8 * * * * *
9 * * * * *
10 * * * * *
11 *****
12
```

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