

تعلیم به روح پدر عزیزم که هیچوقت نبودنش رو نمی توانم باور کنم
پدر جان، روحت شاد

به نام آنکه جان را فکرت آموخت

چراغ دل به نور جان برافروخت

ز فضلش هر دو عالم گشت روشن

ز فیضش خاک آدم گشت گلشن

توانایی که در یک طرفه العین

ز کاف و نون پدید آورد کونین

چو قاف قدرتش دم بر قلم زد

هزاران نقش بر لوح عدم زد

از آن دم گشت پیدا هر دو عالم

وز آندم شد هویدا جان آدم

Pattern 1: Print the stars

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

```
#include<iostream>
```

```
using namespace std;
```

```
int main()
```

```
{
```

```
    int i,j,n;
```

```
    cout<<" Enter the number of lines to be printed : ";
```

```
    cin>>n;
```

```
    for(i=0;i<n;i++)
```

```
    {
```

```
        for(j=0;j<=i;j++)
```

```
        {
```

```
            cout<<"*";
```

```
        }
```

```
        cout<<endl;
```

```
        cin.get();
```

```
    }
```

```
}
```

Pattern 2: Print the stars

*

**

```
#include<iostream>
```

```
using namespace std;
```

```
int main()
```

```
{
```

```
    int i,j,n;
```

```
    cout<<" Enter the number of lines to be printed : ";
```

```
    cin>>n;
```

```
    for(i=0;i<n;i++)
```

```
    {
```

```
        for(j=n-i;j>1;j--)
```

```
        {
```

```
            cout<<" ";
```

```
        }
```

```
        for(j=0;j<=i;j++)
```

```
        {
```

```
            cout<<"*";
```

```
        }
```

```
        cout<<endl;
```

```
        cin.get ();
```

```
    }
```

```
}
```

Pattern 3: Print the stars

** **

* *

```
#include<iostream>
```

```
using namespace std;
```

```
int main()
```

```
{
```

```
    int i,j,n,k;
```

```
    cout<<" Enter the number of lines to be printed : ";
```

```
    cin>>n;
```

```
    for(i=0;i<n;i++)
```

```
    {
```

```
        for(j=0;j<n-i;j++)
```

```
        {
```

```
            cout<<"*";
```

```
        }
```

```
        for(k=0;k<(2*n-2*j);k++)
```

```
        {
```

```
            cout<<" ";
```

```
        }
```

```
        for(j=0;j<n-i;j++)
```

```
        {
```

```
            cout<<"*";
```

```
        }
```

```
        cout<<"\n";
```

```
        cin.get();
```

```
    }
```

```
}
```

Pattern 4: Print the stars

```
#include<iostream>
using namespace std;
int main()
{
    int i,j,n,k;
    cout<<"\nEnter the number of lines to be printed: ";
    cin>>n;
    for(i=0;i<n;i++)
    {
        for(j=0;j<n-i;j++)
        {
            cout<<"*";
        }
        for(k=0;k<(2*n-2*j);k++)
        {
            cout<<" ";
        }
        for(j=0;j<n-i;j++)
        {
            cout<<"*";
        }
        cout<<endl;
    }
    for(i=0;i<n;i++)
    {
        for(j=0;j<=i;j++)
        {
            cout<<"*";
        }
        for(k=2*n-2*j;k>0;k--)
        {
            cout<<" ";
        }
        for(j=0;j<=i;j++)
```

[illegible]

Pattern 5: Print the stars

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

```
#include<iostream>
using namespace std;
int main()
{
    int i,j,k,n;
    cout<<"\ Enter the number of lines to be printed: ";
    cin>>n;
    for(i=0;i<n;i++)
    {
        for(j=0;j<(n-i-1);j++)
        cout<<" ";
        for(k=0;k<(2*i+1);k++)
        cout<<"*";
        cout<<endl;
    }
    for(i=0;i<n-1;i++)
    {
        for(j=0;j<=i;j++)
        cout<<" ";
        for(k=(2*n-2*i-3);k>0;k--)
        cout<<"*";
        cout<<endl;
    }
}
```

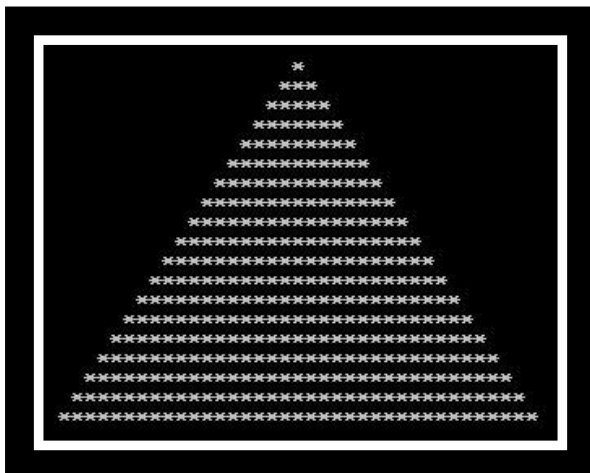

Pattern 6: Print the stars

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

```
#include<iostream>
using namespace std;
int main()
{
    int i,j,k,n;
    cout<<" Enter the number of lines to be printed: ";
    cin>>n;
    for(i=0;i<n;i++)
    {
        for(j=n-i-1;j>0;j--)
            cout<<" ";
        cout<<"*";
        for(k=2*i-1;k>0;k--)
            cout<<" ";
        if(i!=0)
            cout<<"*";
        cout<<endl;
    }
    for(i=n-1;i>0;i--)
    {
        for(j=0;j<n-i;j++)
            cout<<" ";
        cout<<"*";
        for(k=2*i-3;k>0;k--)
            cout<<" ";
        if(i!=1)
            cout<<"*";
        cout<<"\n";
    }
}
```

Pattern 7: Print the stars

```
#include<iostream>
using namespace std;
int main()
{
    int i,j,k,n;
    cout<<"\nEnter the number of lines to be printed: ";
    cin>>n;
    for(i=0;i<n;i++)
    {
        for(j=i;j<n;j++)
        {
            cout<<"*";
        }
        cout<<endl;
    }
}
```





Pattern 9: Print the stars

```
#include<iostream>
```

```
using namespace std;
```

```
int main()
```

```
{
```

```
    int i,j,k,n;
```

```
    cout<<"\ Enter the number of lines to be printed: ";
```

```
    cin>>n;
```

```
    for(i=1;i<2*(n-2);i++)
```

```
    cout<<" ";
```

```
        cout<<"*"<<endl;
```

```
        for(i=1;i<n-1;i++)
```

```
        {
```

```
            for(j=n-i;j>0;j--)
```

```
            cout<<" ";
```

```
            cout<<"*";
```

```
            for(k=0;k<2*i-1;k++)
```

```
            cout<<" ";
```

```
            cout<<"*"<<endl;
```

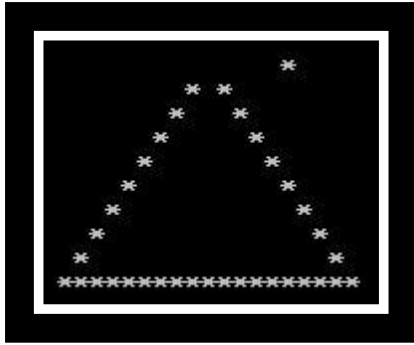
```
        }
```

```
        cout<<" ";
```

```
        for(i=0;i<2*n-1;i++)
```

```
        cout<<"*";
```

```
    }
```



Pattern 10: Print the stars

```
#include<iostream>

using namespace std;

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

    cout<<"\ Enter the number of lines to be printed: ";

    cin>>n;

    for(i=0;i<n;i++)

    cout<<"*";

    cout<<endl;

    for(i=0;i<n-2;i++)

    {

    cout<<"*";

    for(j=0;j<n-2;j++)

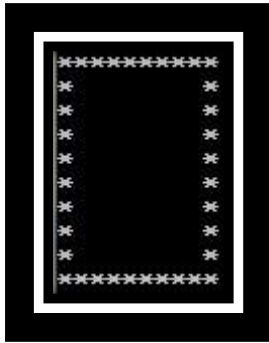
    cout<<" ";

    cout<<"*"<<endl;

    }

    for(i=0;i<n;i++)
```

```
cout<<"*";
}
```



Pattern 11: Print the stars

```
#include<iostream>

using namespace std;

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

    cout<<" Enter the number of lines to be ptinted :";

    cin>>n;

    for(i=0;i<n;i++)
    {
        for(j=0;j<i;j++)
        {
            cout<<" ";
        }

        for(k=0;k<i;k++)
```

```

{
    cout<<"*";

}

cout<<endl;

}

for(i=0;i<n;i++)
{
    for(j=0;j<n-i;j++)
    {
        cout<<" ";

    }

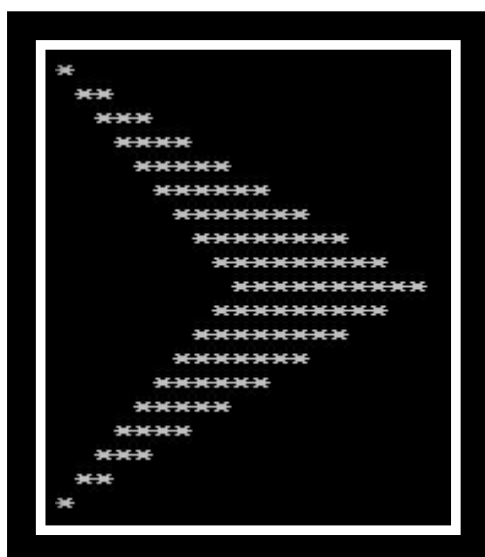
    for(k=0;k<n-i;k++)
    {
        cout<<"*";

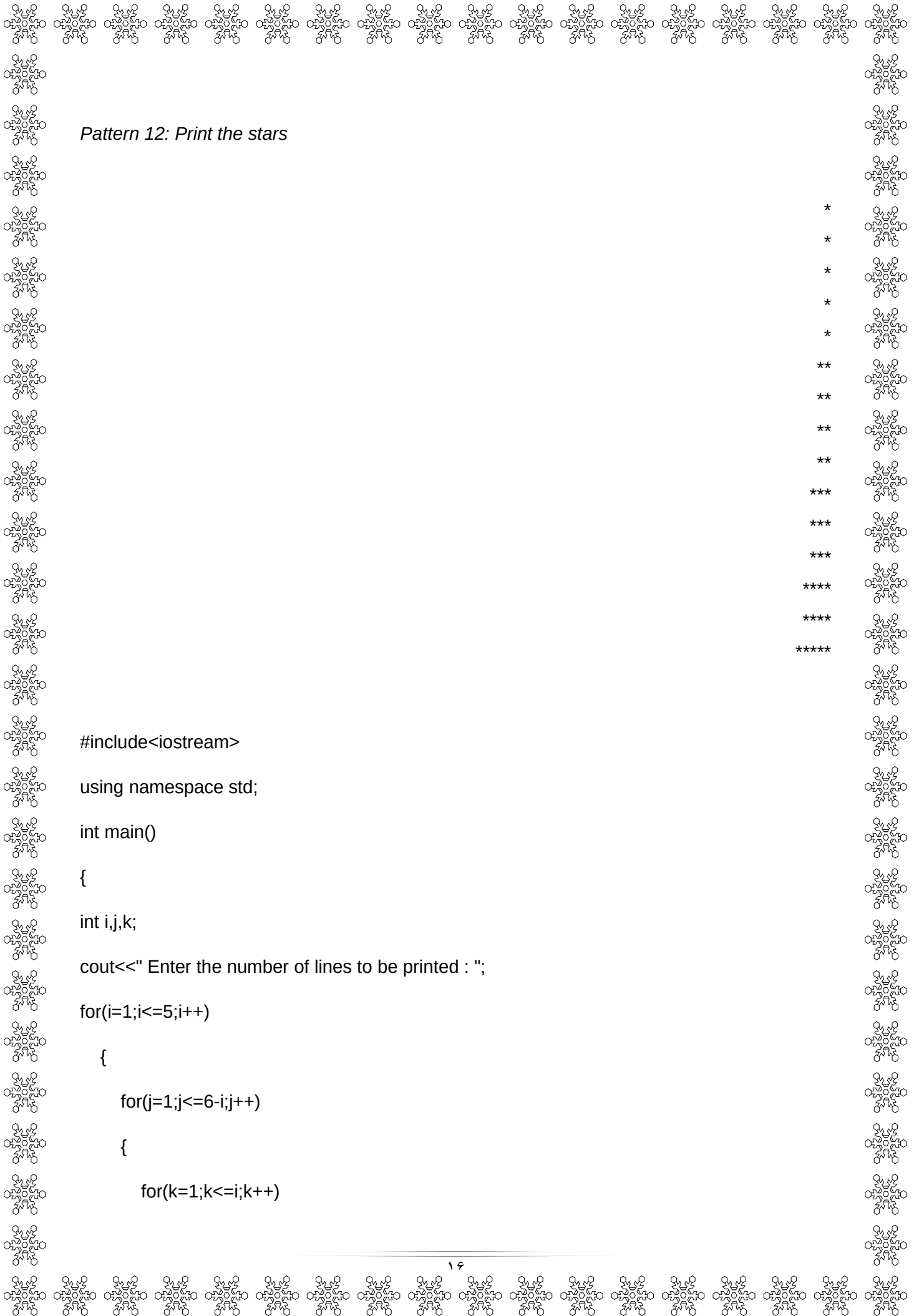
    }

    cout<<endl;

}
}

```





Pattern 12: Print the stars

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

```
#include<iostream>  
  
using namespace std;  
  
int main()  
{  
    int i,j,k;  
  
    cout<<" Enter the number of lines to be printed : ";  
  
    for(i=1;i<=5;i++)  
    {  
        for(j=1;j<=6-i;j++)  
        {  
            for(k=1;k<=i;k++)
```



```
cout<<"*";
```

```
cout<<"\n";
```

```
cin.get();
```

```
}
```

```
}
```

```
}
```

Pattern 13: Print the stars

```
*
```

```
*
```

```
*
```

```
**
```

```
**
```

```
***
```

```
***
```

```
****
```

```
*****
```

```
#include<iostream>
```

```
using namespace std;
```

```
int main()
```

```
{
```

```
int i;
```

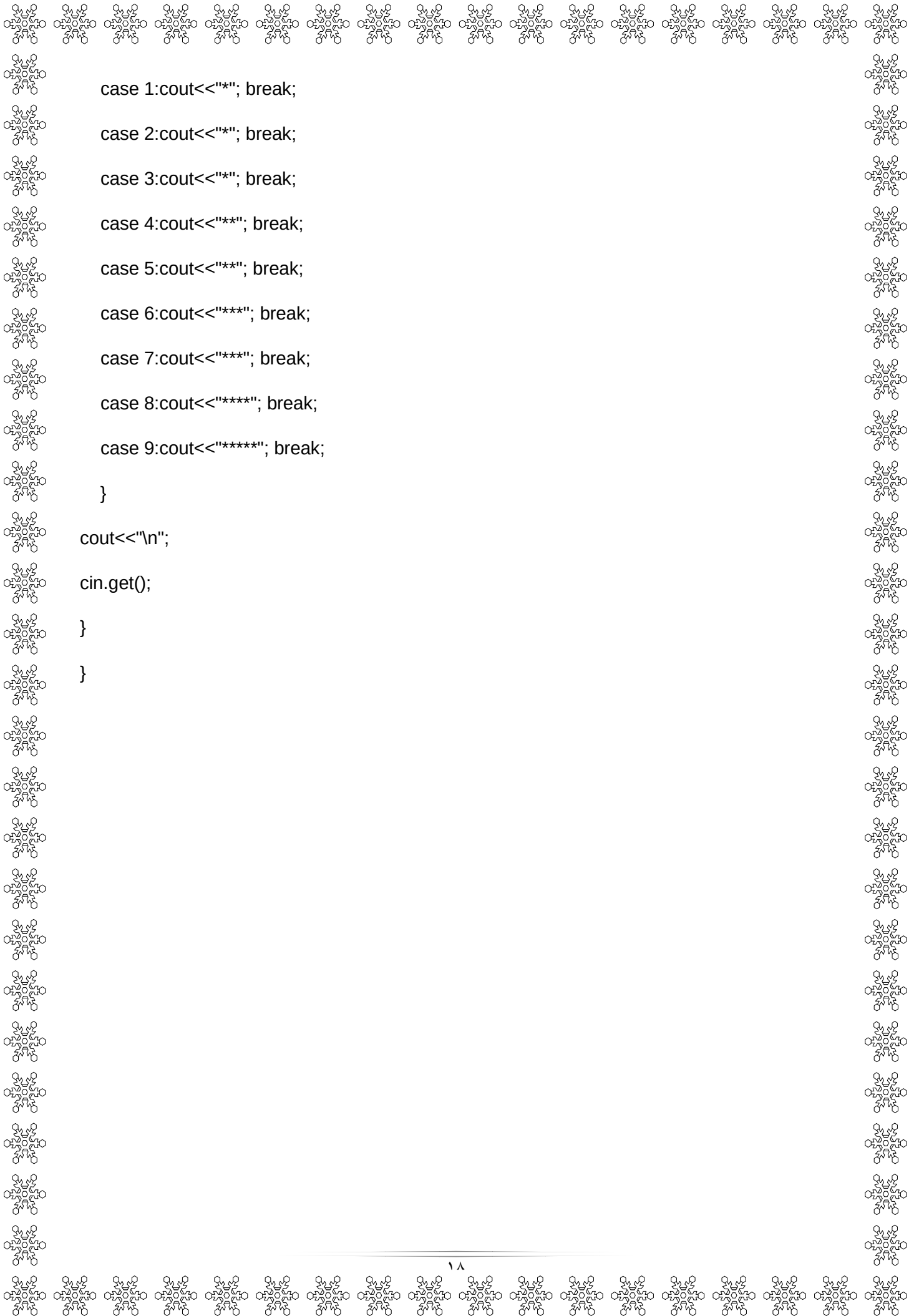
```
cout<<" Enter the number of lines to be printed : ";
```

```
for(i=1;i<=9;i++)
```

```
{
```

```
switch(i)
```

```
{
```



```
case 1:cout<<"*"; break;
case 2:cout<<"**"; break;
case 3:cout<<"***"; break;
case 4:cout<<"****"; break;
case 5:cout<<"*****"; break;
case 6:cout<<"*****"; break;
case 7:cout<<"*****"; break;
case 8:cout<<"*****"; break;
case 9:cout<<"*****"; break;
}
cout<<"\n";
cin.get();
}
```

Pattern 14: Print the stars

```
#include<iostream>
```

```
#include<conio.h>
```

```
using namespace std;
```

```
int main()
```

```
{
```

```
int j=10;
```

```
for (int i=1;i<=10;i++)
```

```
{
```

```
for (int k=1;k<=j;k++)
```

```
{
```

```
cout<<(" ");
```

```
}
```

```
for (int x=1;x<=i;x++)
```

```
{
```

```
cout<<("*");
```

```
cout<<(" ");
```

```
}
```

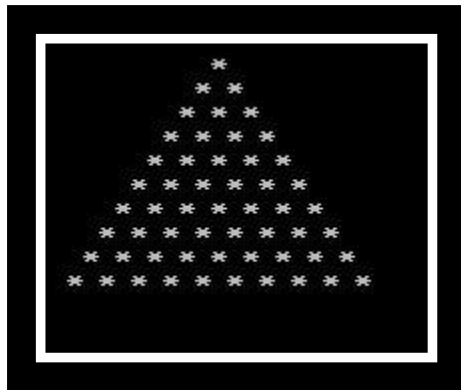
```
cout<<("\n");
```

```
j--;
```

```
}
```

```
getch();
```

}



Pattern 15: Print the stars

*1

**11

***111

****1111

*****11111

```
#include<iostream>
```

```
using namespace std;
```

```
int main()
```

```
{
```

```
int i,j;
```

```
for(i=1;i<=5;i++)
```

```
{
```

```
for(j=6-i;j>=1;j--)
```

```
{
```

```
cout<<"*";
```

```
cin.get();
```



Pattern 16:

```
#include<iostream>
```

```
using namespace std;
```

```
int main()
```

```
{
```

```
int n;
```

```
cout<<"Enter the number of lines to be printed : ";
```

```
cin>>n;
```

```
for(int i=n;i>0;i--)
```

```
    for(int j=1;j<=i;j++)
```

```
        cout<<"\n"<<j;
```

```
    cout<<endl;
```

```
}
```

```
1
2
3
4
5
1
2
3
4
1
2
3
1
2
1
```

Pattern 17:

```
#include<iostream>
```

```
#include<conio.h>
```

```
using namespace std;
```

```
int main()
```

```
{
```

```
int i,j,k;
```

```
for(i=1;i<=5;i++){
```

```
for(j=5;j>=i;j--){
```

```
cout<<" ";
```

```
}
```

```
for(k=1;k<=i;k++){
```

```
cout<<"*";
```

```
}
```

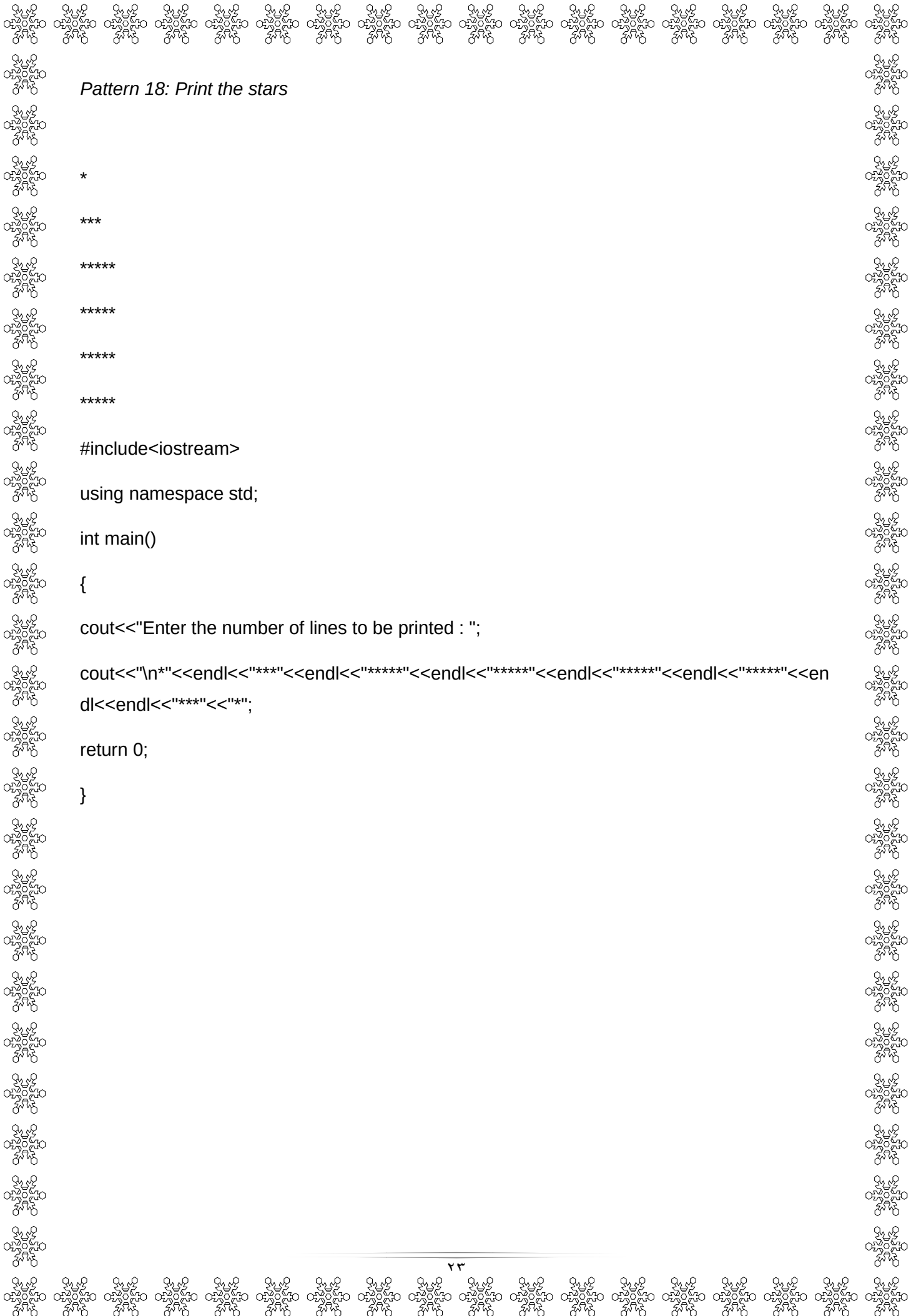
```
cout<<"\n";
```

```
}
```

```
getch();
```

```
}
```





Pattern 18: Print the stars

*

```
#include<iostream>
```

```
using namespace std;
```

```
int main()
```

```
{
```

```
cout<<"Enter the number of lines to be printed : ";
```

```
cout<<"\n*"<<endl<<"***"<<endl<<"*****"<<endl<<"*****"<<endl<<"*****"<<endl<<"*****"<<endl<<"*****"<<endl<<"***"<<"*";
```

```
return 0;
```

```
}
```

Pattern 19: Print the stars

```
*  
*A*  
*A*A*  
*A*A*A*
```

```
#include <iostream>
```

```
using namespace std;
```

```
int main()
```

```
{
```

```
    int n, c, k, space, count = 1;
```

```
    cout<<"Enter number of rows : \n";
```

```
    cin>>c>>n>>k;
```

```
    space = n;
```

```
    for ( c = 1 ; c <= n ; c++)
```

```
    {
```

```
        for( k = 1 ; k < space ; k++)
```

```
            cout<<" ";
```

```
        for ( k = 1 ; k <= c ; k++)
```



```

{
    cout<<"*";

    if ( c > 1 && count < c)
    {
        cout<<"A";
        count++;
    }
}

cout<<"\n";

space--;

count = 1;

}

cin.get();
}

```

Pattern 20:

1

232

34543

4567654

567898765

```
#include <iostream>
```

```
using namespace std;
```

```
int main()
```

```
{
```

```
    int n, c, d, num = 1, space;
```

```
    cout<<"Enter number of rows : \n";
```

```
    cin>>n>>c>>d;
```

```
    space = n - 1;
```

```
    for ( d = 1 ; d <= n ; d++ )
```

```
    {
```

```
        num = d;
```

```
        for ( c = 1 ; c <= space ; c++ )
```

```
            cout<<" ";
```

```
        space--;
```

```
for ( c = 1 ; c <= d ; c++ )
```

```
{
```

```
    cout<<num;
```

```
    num++;
```

```
}
```

```
num--;
```

```
num--;
```

```
for ( c = 1 ; c < d ; c++ )
```

```
{
```

```
    cout<<num;
```

```
    num--;
```

```
}
```

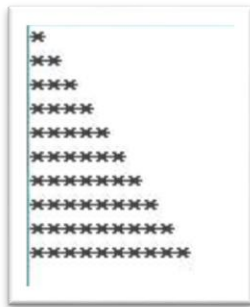
```
cout<<"\n";
```

```
}
```

```
cin.get();
```

```
}
```

Pattern 21: Print the stars



```
#include <iostream>
```

```
using namespace std;
```

```
int main ()
```

```
{
```

```
    for(int i=1;i<=10;i++)
```

```
    {
```

```
        for(int j=1;j<=i;j++)
```

```
        {
```

```
            cout<<'*';
```

```
        }
```

```
        cout<<endl;
```

```
    }
```

```
    cin.get();
```

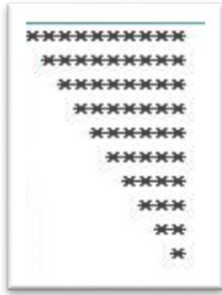
```
}
```

Pattern 22: Print the stars

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

```
#include <iostream>  
  
using namespace std;  
  
int main ()  
{  
    for(int i=1;i<=10;i++)  
    {  
        for(int j=1;j<=11-i;j++)  
        {  
            cout<<'*';  
        }  
        cout<<endl;  
    }  
    cin.get();  
}
```

Pattern 23: Print the stars



```
#include <iostream>

using namespace std;

int main ()
{
    for(int i=1;i<=10;i++)
    {
        for(int j=1;j<=i-1;j++)
        {
            cout<<" ";
        }

        for(int j=1;j<=11-i;j++)
        {
            cout<<"*";
        }

        cout<<endl;
    }

    cin.get();
}
```

Pattern 24: Print the stars



```
#include <iostream>

using namespace std;

int main ()
{
    for(int i=1;i<=10;i++)
    {
        for(int j=1;j<=10-i;j++)

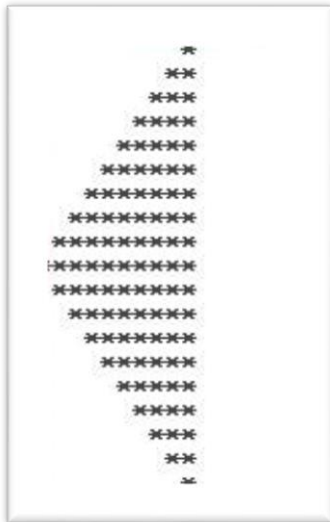
            cout<<' ';

        for(int j=1;j<=i;j++)
        {
            cout<<'*';
        }

        cout<<endl;
    }

    cin.get();
}
```

Pattern 25: Print the stars



```
#include <iostream>

using namespace std;

int main ()
{
    for(int i=1;i<=19;i++)
    {
        if(i<=10)
        {
            for(int j=1;j<=10-i;j++)
            {
                cout<<' ';
            }

            for(int j=1;j<=i;j++)
            {
                cout<<'*';
            }

        }
    }
}
```



```
else
{
    for(int j=1;j<=i-10;j++)

    {

        cout<<' ';

    }

    for(int j=1;j<=20-i;j++)

    {

        cout<<'*';

    }

}

cout<<endl;

}

cin.get();

}
```

Created by Erfan_0098