

```

#include <iostream>
using namespace std;
int main()
{
    int n,i,j;
    cout<<"enter star:";
    cin>>n;
    for(i=1;i<=n;i++)
    {
        for(j=1;j<=n;j++)
        {
            if(j==1 or j==n or i==j)
                cout<<"*";
            else
                cout<<" ";
        }
        cout<<endl;
    }
}

```

```

enter star:15
*
**
* *
* *
* *
* *
* *
* *
* *
* *
* *
* *
* *
* *
*

```

```

#include <iostream<
using namespace std;
int main()
}
int n,i,j;
cout<<"enter star;":
cin>>n;
for(i=1;i<=n;i(++
}
for(j=1;j<=n;j(++
}
if(i== \ or i==n or i+j==n+( \
cout;"*">>
else
cout;" ">>
{
cout<<endl;

```

```

{
{

#include <iostream>
using namespace std;
int main()
{
    int n,i,j;
    cout<<"enter star:";
    cin>>n;
    for(i=1;i<=n;i++)
    {
        for(j=1;j<=n;j++)
        {
            if(i==1 or i==n or j==1 or i==n/2 )
                cout<<"*";
            else
                cout<<" ";
        }
    }
    cout<<endl;
}
}

```

```

"D:\tamrin haftom\st22\
enter star:10
*****
*
*
*
*****
*
*
*
*****
*
*
*****
Process returned 0
Press any key to co

```

```

#include <iostream>
using namespace std;
int main()
{
    int n,i,j;
    cout<<"enter star:";
    cin>>n;
    for(i=1;i<=n;i++)
    {
        for(j=1;j<=n;j++)
        {
            if(i==1 or i==n or i+j==n+1)
                cout<<"*";
            else
                cout<<" ";
        }
    }
    cout<<endl;
}
}

```

```

"D:\tamrin haftom\st22\bin\Debug\st22.exe"
enter star:15
*****
*
*
*
*
*
*
*
*
*
*
*
*
*
*
*****
Process returned 0 (0x0)   execution time : 5.487 s
Press any key to continue.

```

```

#include <iostream>
using namespace std;
int main()
{
    int n,i,j;
    cout<<"enter star:";
    cin>>n;
    for(i=1;i<=n;i++)
    {
        for(j=1;j<=n;j++)
        {
            if(i==1 or j==1 or i==n/2+1 )
                cout<<"*";
            else
                cout<<" ";
        }
    }
    cout<<endl;
}

```

```

"D:\tamrin haftom\st22\bin\Debug\st22.exe"
enter star:15
*****
*
*
*
*
*
*
*
*****
*
*
*
*
*
*
*
*****
*
*
*
*
*
*
*
*****
Process returned 0 (0x0)   execution time : 1.309 s
Press any key to continue.

```

```

#include <iostream>
using namespace std;
int main()
{
    int n,i,j;
    cout<<"enter star:";
    cin>>n;
    for(i=1;i<=n;i++)
    {
        for(j=1;j<=n;j++)
        {
            if( i==n/2 )
                cout<<"*";
            else
                cout<<" ";
        }
    }
    cout<<endl;
}

```

```

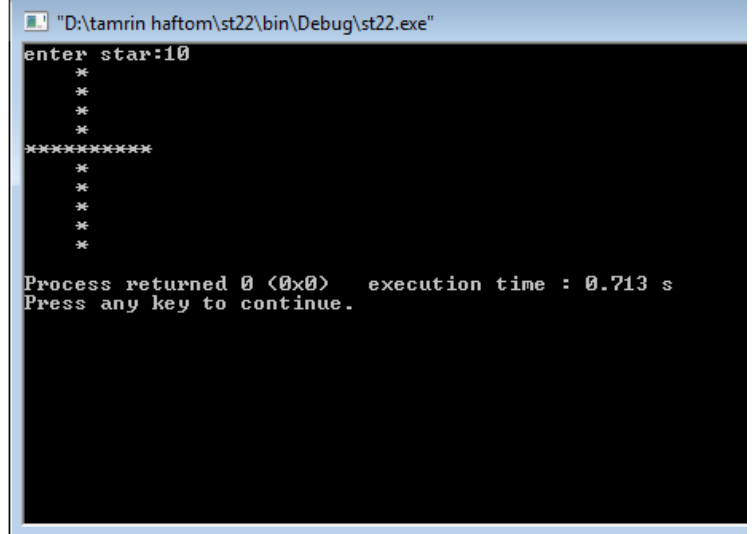
"D:\tamrin haftom\st22\bin\Debug\st22.exe"
enter star:15

*****

Process returned 0 (0x0)   execution time : 1.556 s
Press any key to continue.

```

```
#include <iostream>
using namespace std;
int main()
{
    int n,i,j;
    cout<<"enter star:";
    cin>>n;
    for(i=1;i<=n;i++)
    {
        for(j=1;j<=n;j++)
        {
            if( i==n/2 or j==n/2 )
                cout<<"*";
            else
                cout<<" ";
        }
    }
    cout<<endl;
}
```



The screenshot shows a Windows command prompt window titled "D:\tamrin haftom\st22\bin\Debug\st22.exe". The user has entered "enter star:10". The program outputs a 10x10 grid of characters. The first row contains 10 asterisks. The second row contains 9 spaces followed by an asterisk. The third row contains 8 spaces followed by an asterisk. The fourth row contains 7 spaces followed by an asterisk. The fifth row contains 6 spaces followed by an asterisk. The sixth row contains 5 spaces followed by an asterisk. The seventh row contains 4 spaces followed by an asterisk. The eighth row contains 3 spaces followed by an asterisk. The ninth row contains 2 spaces followed by an asterisk. The tenth row contains 1 space followed by an asterisk. The program then displays "Process returned 0 (0x0) execution time : 0.713 s" and "Press any key to continue."

```

#include <iostream>
using namespace std;
int main()
{
    int n,i,j;
    cout<<"enter star:";
    cin>>n;
    for(i=1;i<=n;i++)
    {
        for(j=1;j<=n;j++)
        {
            if( i==j or i+j==n+1 or j==n/2+1 )
                cout<<"*";
            else
                cout<<" ";
        }
        cout<<endl;
    }
}

```

The screenshot shows a terminal window titled "D:\tamrin haftom\st22\bin\Debug\st22.exe". The user enters "15" for the number of stars. The program outputs a diamond-shaped pattern of asterisks. The pattern consists of 15 rows. The first row has 1 star, the second has 3, the third has 5, the fourth has 7, the fifth has 9, the sixth has 11, the seventh has 13, the eighth has 15, the ninth has 13, the tenth has 11, the eleventh has 9, the twelfth has 7, the thirteenth has 5, the fourteenth has 3, and the fifteenth has 1 star. Below the pattern, the terminal displays "Process returned 0 (0x0) execution time : 1.020" and "Press any key to continue."

```

#include <iostream>
using namespace std;
int main()
{
    int n,i,j;
    cout<<"enter star:";
    cin>>n;
    for(i=1;i<=n;i++)
    {
        for(j=1;j<=n;j++)
        {
            if( i+j==n-1 )
                cout<<"*";
            else
                cout<<" ";
        }
        cout<<endl;
    }
}

```

The screenshot shows a terminal window titled "D:\tamrin haftom\st22\bin\Debug\st22.exe". The user enters "15" for the number of stars. The program outputs a diagonal pattern of asterisks. The pattern consists of 15 rows. The first row has 1 star at the end, the second has 2 stars, the third has 3, the fourth has 4, the fifth has 5, the sixth has 6, the seventh has 7, the eighth has 8, the ninth has 9, the tenth has 10, the eleventh has 11, the twelfth has 12, the thirteenth has 13, the fourteenth has 14, and the fifteenth has 15 stars. Below the pattern, the terminal displays "Process returned 0 (0x0) execution time : 1.332" and "Press any key to continue."