PRINT 1 TO N

Given n (number of rows), print the following pattern:

n = 5

```
1
2
3
4
5
```

```
for(int i=1; i<=n ;i++)
{
    cout << i <<endl;
}
```

n = 6

```
1
2
3
4
5
6
```

n = 7

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

2 STARS

Given n (number of rows), print the following pattern:

n = 5

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

```
for(int i=1; i<=n ;i++)
{
    cout << "**"<<endl;
}
```

n = 6

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

n = 7

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

4 STARS

Given n (number of rows), print the following pattern:

n = 5

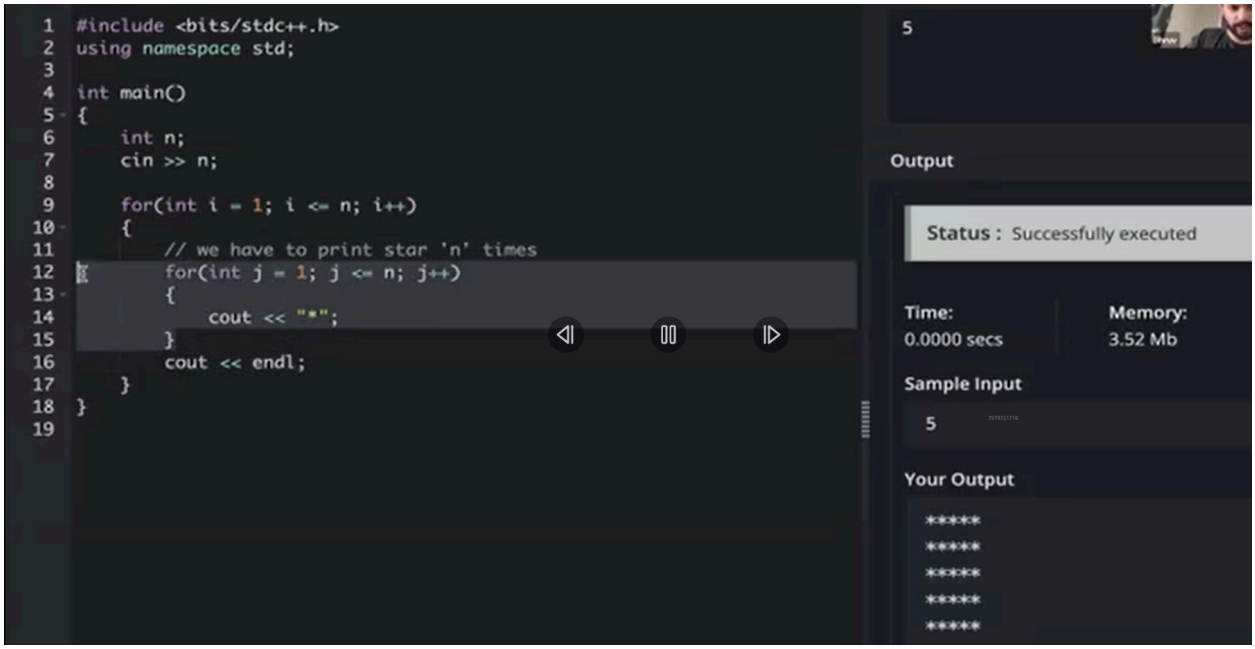
```
****
****
****
****
****
```

n = 6

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

n = 7

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



M STARS (RECTANGLE)

Given n (no. of rows) and m (no. of cols) , print the following pattern:

n = 5, m = 7

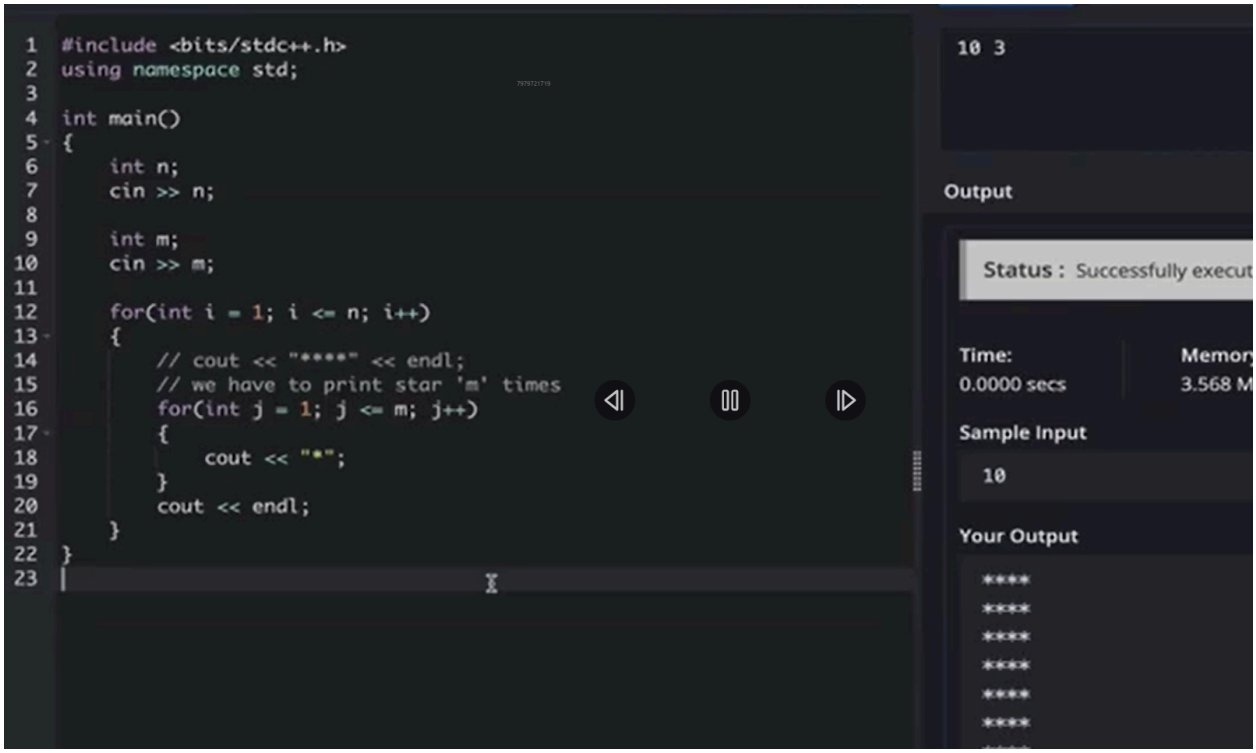
```
*******
*******
*******
*******
*******
```

n = 6, m = 3

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

n = 7, m = 4

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



SQUARE

Given n (no. of rows and cols), print the following pattern:

n = 5

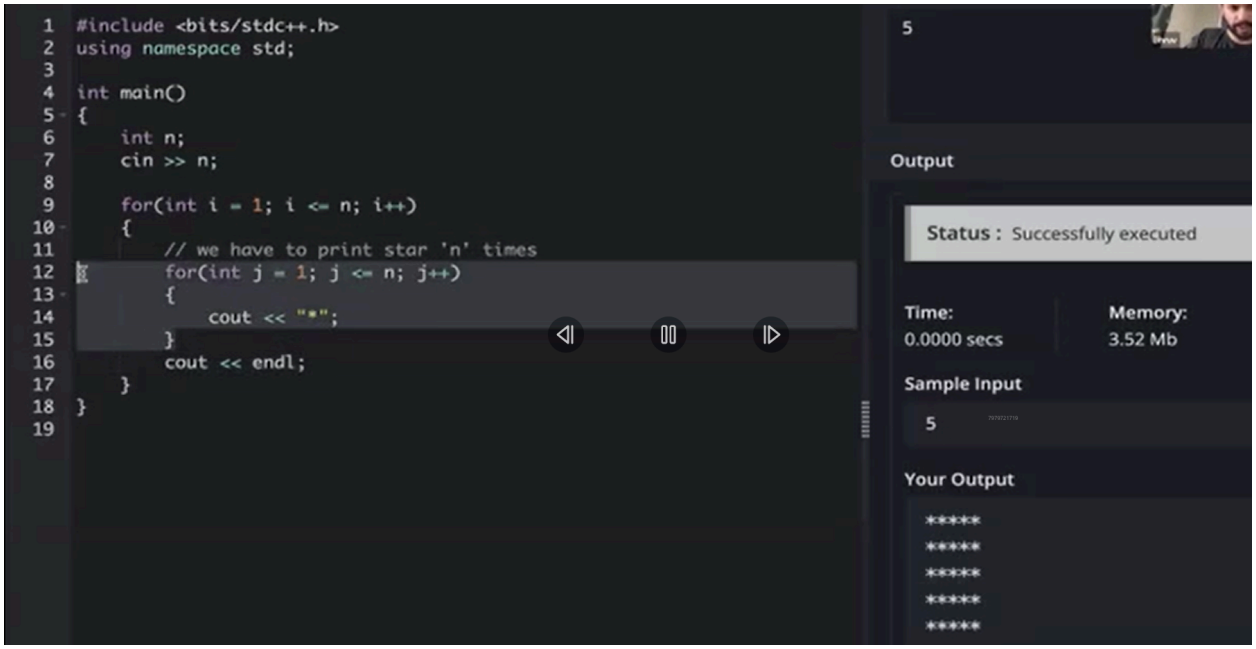
```
* * * * *
* * * * *
* * * * *
* * * * *
* * * * *
```

n = 6

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

n = 7

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



PYRAMID

Given n (no. of rows), print the following pattern:

n = 5

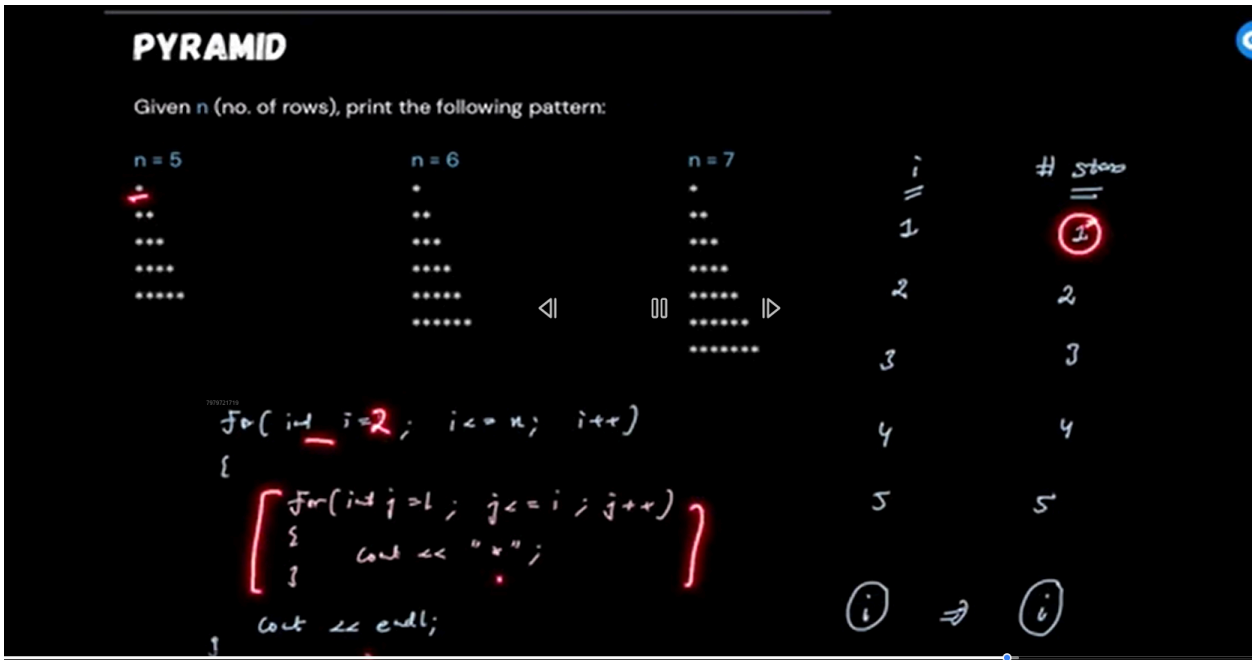
```
*
**
***
****
*****
```

n = 6

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

n = 7

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



INVERTED PYRAMID

Given n (no. of rows), print the following pattern:

n = 5

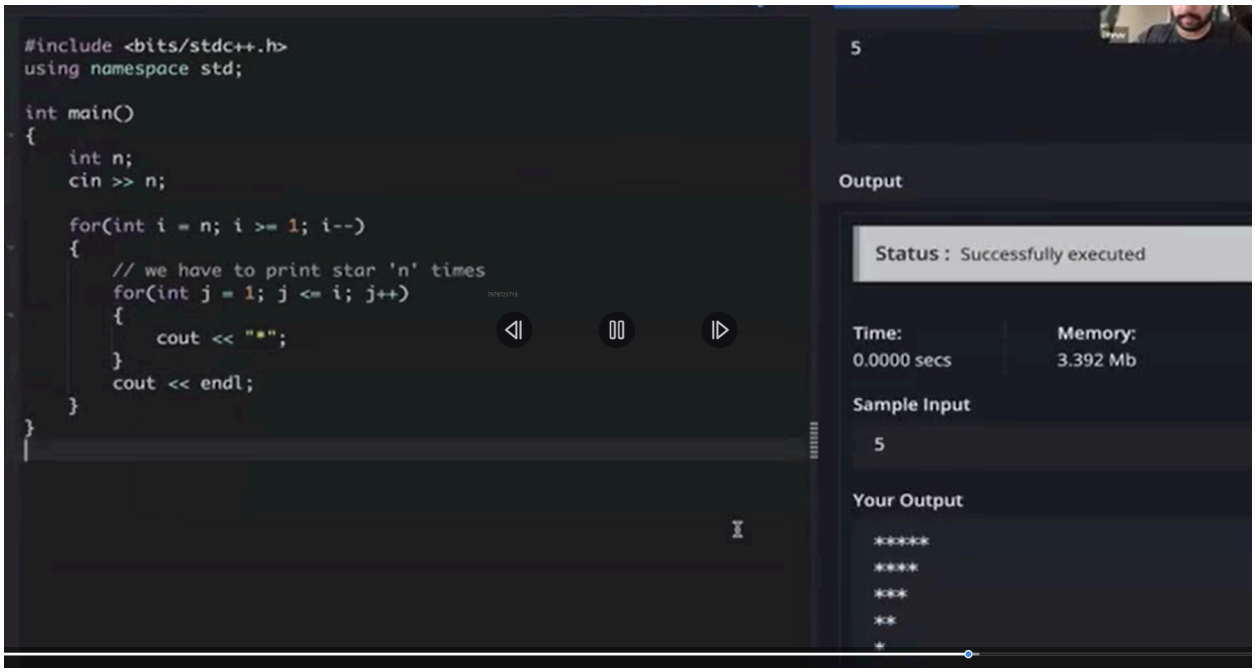
```
*****
****
***
**
*
```

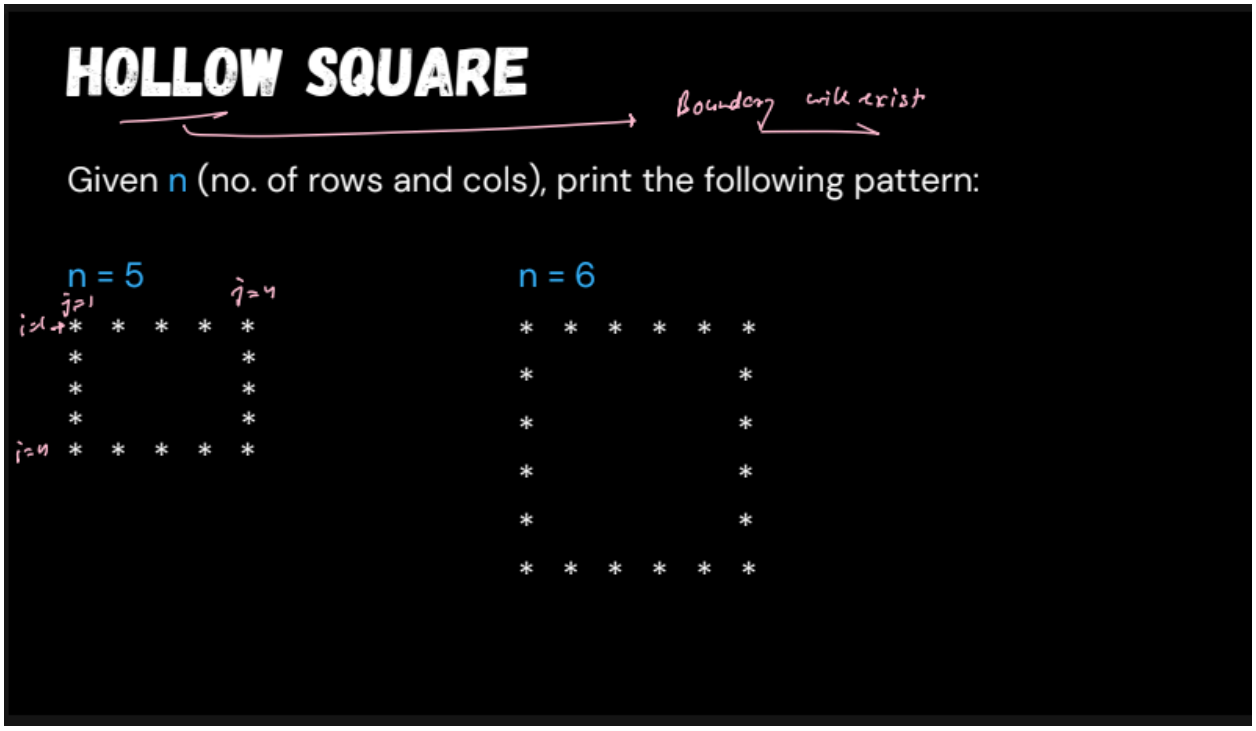
n = 6

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

n = 7

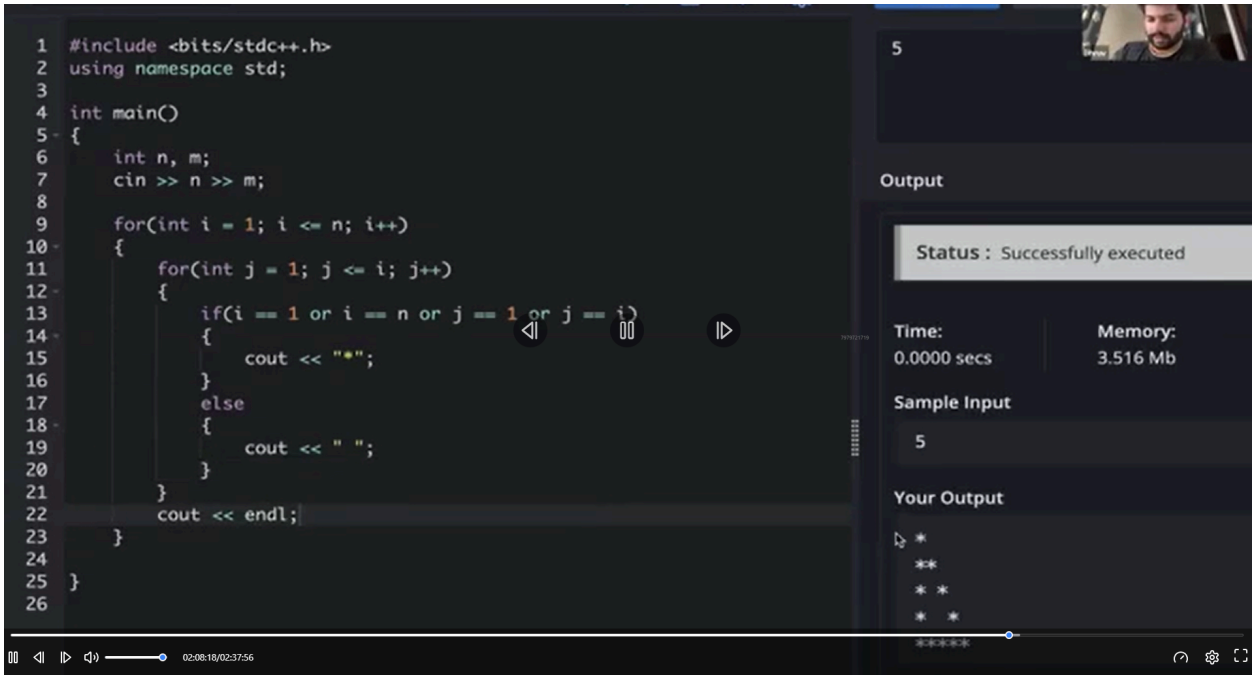
```
*******
******
*****
****
***
**
*
```

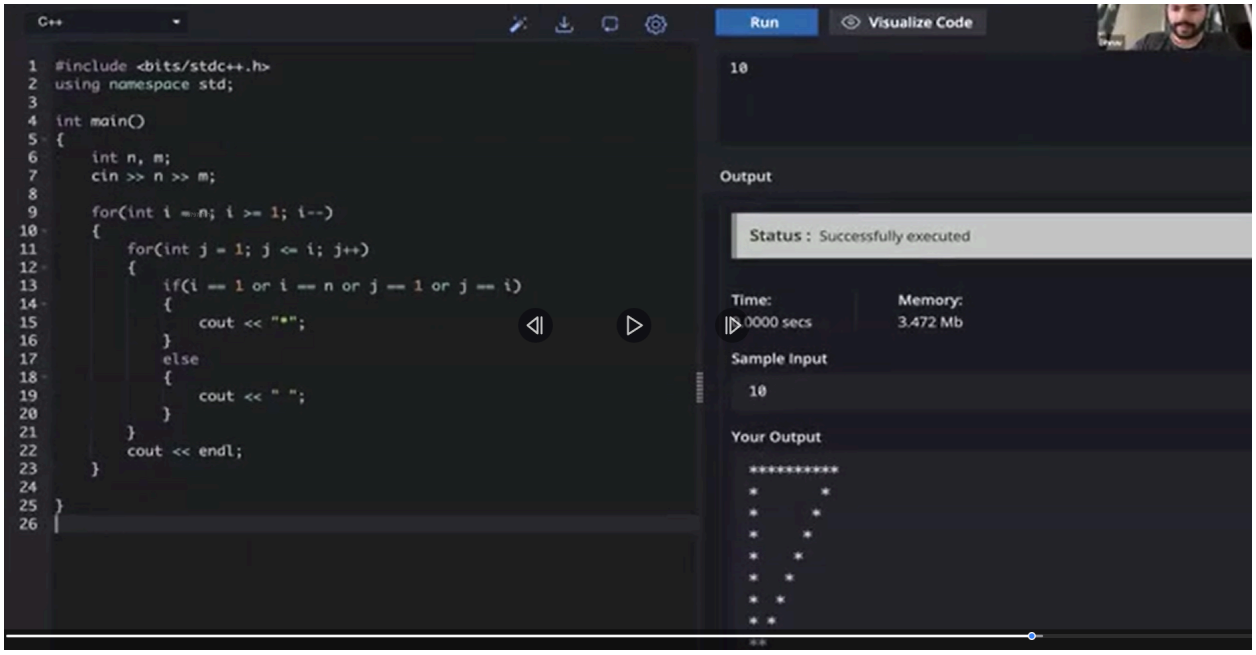




Note:

1. **To solve the Hollow square problem Focus on boundary points I.e. if(i=1 || i=n || j=1 || j=n)**





NUMBERED RECTANGLE

Given n (no. of rows) and m (no. of cols) , print the following pattern:

n = 5, m = 7

```
1111111
2222222
3333333
4444444
5555555
```

n = 6, m = 3

```
111
222
333
444
555
666
```

n = 7, m = 4

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

1) Draw the star pattern
2) Replace * → given elem