

Q. Zeros and Stars Pattern

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Print the following pattern

Pattern for N = 4

\*000\*000\*

0\*00\*00\*0

00\*0\*0\*00

000\*\*\*000

Input Format :

N (Total no. of rows)

Output Format :

Pattern in N lines

Sample Input 1 :

3

Sample Output 1 :

\*00\*00\*

0\*0\*0\*0

00\*\*\*00

Sample Input 2 :

5

Sample Output 2 :

\*0000\*0000\*

0\*000\*000\*0

00\*00\*00\*00

000\*0\*0\*000

0000\*\*\*0000

**Program:**

```
#include<iostream>
```

```
using namespace std;
```

```
void pattern(int n)
```

```
{
```

```
    cout << endl<<endl;
```

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

```
    {
```

```
        for(int j=0;j<n;j++)
```

```
        {
```

```
            if(i==j)
```

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

```
            else
```

```
            {
```

```
                cout << "0";
```

```
            }
```

```
        }
```

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

```
        for(int k=0;k<n;k++)
```

```
        {
```

```
            if((k+i)==n-1)
```

```

        {
            cout << "*";
        }
        else
        {
            cout << "0";
        }
    }
    cout << endl;
}
cout << endl << endl;
}
int main()
{
    pattern(5);
    pattern(10);
    return 0;
}

```

### Output:

```

*0000*0000*
0*000*000*0
00*00*00*00
000*0*0*000
0000***0000

```

```

*000000000*000000000*
0*00000000*00000000*0
00*0000000*0000000*00
000*000000*000000*000
0000*00000*00000*0000
00000*0000*0000*00000
000000*000*000*000000
0000000*00*00*0000000
00000000*0*0*00000000
000000000***000000000

```