

یکی از رایج ترین تمرینات برنامه نویسی برای حلقه‌های تو در تو چاپ ستاره‌ها به شکل‌های مختلف هست.  
در این مطلب یک سری از مسائل منتخب چاپ ستاره را با هم مرور می‌کنیم...

## Enter The Size Of Shape:

10

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```

```
#include <iostream>  
  
using namespace std;  
  
int main() {  
    int n;  
  
    cout<<"Enter The Size Of Shape: \n";  
    cin>>n;  
  
    for(int i = 1 ; i <= n ; i++){  
        for(int j = 1 ; j <= i ; j++)  
            cout<<"*";  
  
        for(int j = n-i ; j >= 0 ; j--)  
            cout<<" ";  
  
        cout<<"\n";  
    }
```

```
}  
  
return 0;  
  
}
```

**Enter The Size Of Shape:**

10

```
 *  
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```

```
#include <iostream>  
using namespace std;  
int main(){  
    int n;  
    cout<<"Enter The Size Of Shape: \n";  
    cin>>n;  
    for(int i = 1 ; i <= n ; i++){  
        for(int j = n ; j > i ; j--)  
            cout<<" ";  
        for(int k = 1 ; k <= i ; k++)  
            cout<<"*";
```

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

return 0;
}
```

**Enter The Size Of Shape:**

10

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

```
#include <iostream>
using namespace std;
int main(){
    int n;
    cout<<"Enter The Size Of Shape: \n";
    cin>>n;
    for(int i = 1 ; i <= n ; i++) {
        for(int j = n-i ; j >= 0 ; j--)
            cout<<"*";
        cout<<"\n";
    }
```

```

}

return 0;

}

```

**Enter The Size Of Shape:**

10

```

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

```

#include <iostream>
using namespace std;
int main(){
    int n;
    cout<<"Enter The Size Of Shape: \n";
    cin>>n;
    for(int i = 1 ; i <= n ; i++) {
        for(int j = i ; j < n ; j++)
            cout<<" ";
        for(int j = 0 ; j < 2*i-1 ; j++)
            cout<<"*";
    }
}

```

```

        cout<<"\n";

    }

    return 0;
}

```

**Enter The Size Of Shape:**

10

```

      *
     ***
    *****
   *********
  ***********
 ***          *
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 *             *
  *            *
   *           *
    *          *
     *         *
      *        *
       *       *
        *      *
         *     *
          *    *
           *   *
            *  *
             *

```

```

#include <iostream>
using namespace std;
int main(){

```

```
int n;

cout<<"Enter The Size Of Shape: \n";

cin>>n;

for(int i=0;i<n;i++) {
    for(int j=0;j<(n-i-1);j++)
        cout<<" ";

    for(int j=0;j<(2*i+1);j++)
        cout<<"*";

    cout<<"\n";
}

for(int i=0;i<n-1;i++) {
    for(int j=0;j<=i;j++)
        cout<<" ";

    for(int j=(2*n-2*i-3);j>0;j--)
        cout<<"*";

    cout<<"\n";
}

return 0;
}
```