

/******

Online C++ Compiler.

Code, Compile, Run and Debug C++ program online.

Write your code in this editor and press "Run" button to compile and execute it.

*****/

```
#include <iostream>
using namespace std;
// creating a function
void print01(int n){
    for(int i=0; i<n; i++){
        for(int j=0; j<n; j++){
            cout<<"*"<<" ";
        }
        cout<<endl;
    }
}
```

```
void print02(int n){
    for(int i=1; i<=n; i++){
        for(int j=0; j<n; j++){
            cout<<i<<" ";
        }
        cout<<endl;
    }
}
```

```
void print03(int n){
    for(int i=0; i<n; i++){
        for(int j=1; j<=n; j++){
            cout<<j<<" ";
        }
        cout<<endl;
    }
}
```

```
void print04(int n){
    for(int i=0; i<n; i++){
        for(int j=n; j>=1; j--){
            cout<<j<<" ";
        }
        cout<<endl;
    }
}
```

```

    }
}

void print05(int n){
    for(int i=0; i<n; i++){
        for(char ch='a'; ch<'a'+n; ch++){
            cout<<ch<<" ";
        }
        cout<<endl;
    }
}

void print06(int n){
    int GlobalVar=1;
    for(int i=0; i<n; i++){
        for(int j=0; j<n; j++){
            cout<<GlobalVar<<" ";
            GlobalVar++;
        }
        cout<<endl;
    }
}

void print07(int n){
    for(int i=1; i<=n; i++){
        for(int j=1; j<=i; j++){
            cout<<"*"<<" ";
        }
        cout<<endl;
    }
}

void print08(int n){
    for(int i=1; i<=n; i++){
        for(int j=1; j<=i; j++){
            cout<<j<<" ";
        }
        cout<<endl;
    }
}

void print09(int n){
    for(int i=1; i<=n; i++){
        for(int j=1; j<=i; j++){
            cout<<i<<" ";
        }
        cout<<endl;
    }
}

```

```

}
void print10(int n){
    for(int i=1; i<=n; i++){
        for(int j=i; j>=1; j--){
            cout<<j<<" ";
        }
        cout<<endl;
    }
}
void print11(int n){
    for(int i=1; i<=n; i++){
        for(char ch='a'; ch<'a'+i; ch++){
            cout<<ch<<" ";
        }
        cout<<endl;
    }
}
void print12(int n){
    for(int i=1; i<=n; i++){
        for(int j=1; j<=i; j++){
            char ch='a'+i-1;
            cout<<ch<<" ";
        }
        cout<<endl;
    }
}
void print13(int n){
    for(int i=1; i<=n; i++){
        for(int j=1; j<=n-i+1; j++){
            cout<<'*'<<" ";
        }
        cout<<endl;
    }
}
void print14(int n){
    for(int i=1; i<=n; i++){
        for(int j=1; j<=n-i+1; j++){
            cout<<j<<" ";
        }
        cout<<endl;
    }
}
void print15(int n){

```

```

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

void print16(int n){
    for(int i=1; i<=n; i++){
        //space
        for(int j=1; j<=n-i; j++){
            cout<<" ";
        }
        //printing star
        for(int j=1; j<=i; j++){
            cout<<"*";
        }

        cout<<endl;
    }
}

void print17(int n){
    for(int i=1; i<=n; i++){
        //space
        for(int j=1; j<=n-i; j++){
            cout<<" ";
        }
        //printing star
        for(int j=1; j<=i; j++){
            cout<<i;
        }

        cout<<endl;
    }
}

void print18(int n){
    for(int i=1; i<=n; i++){
        //space
        for(int j=1; j<=n-i; j++){
            cout<<" ";
        }
        //printing star
        for(int j=1; j<=i; j++){
            cout<<j;
        }
    }
}

```

```

    }

    cout<<endl;
}
}
void print19(int n){
    for(int i=1; i<=n; i++){
        //space
        for(int j=1; j<=n-i; j++){
            cout<<" ";
        }
        //printing star
        for(int j=1; j<=i; j++){
            char ch='A'+j-1;
            cout<<ch;
        }

        cout<<endl;
    }
}
void print20(int n){
    for(int i=1; i<=n; i++){
        //space
        for(int j=1; j<=n-i; j++){
            cout<<" ";
        }
        //printing star
        for(int j=i; j>=1; j--){
            cout<<j;
        }

        cout<<endl;
    }
}
void print21(int n){
    for(int i=1; i<=n; i++){
        //space
        for(int j=1; j<=n-i; j++){
            cout<<" ";
        }
        //printing star
        for(int j=1; j<=2*i - 1; j++){
            cout<<"*";
        }
    }
}

```

```

        cout<<endl;
    }
}

void print22(int n){
    for(int i=1; i<=n; i++){
        //space
        for(int j=1; j<=n-i; j++){
            cout<<" ";
        }
        int temp=i;
        //printing star
        for(int j=1; j<=2*i - 1; j++){

            if(j>i){
                temp--;
                cout<<temp;
            }
            else{
                cout<<j;
            }

        }

        cout<<endl;
    }
}

```

```

void print23(int n){
    for(int i=1; i<=n; i++){
        //space
        for(int j=1; j<i; j++){
            cout<<" ";
        }
        //printing star
        for(int j=1; j<=2*(n-i)+1; j++){
            cout<<"*";
        }

        cout<<endl;
    }
}

```

```

void print24(int n){
    for(int i=1; i<=n; i++){
        //star
        for(int j=1; j<=n-i+1; j++){
            cout<<"*";
        }

        //space
        for(int j=1; j<=2*(i-1); j++){
            cout<<" ";
        }
        //printing star
        for(int j=1; j<=n-i+1; j++){
            cout<<"*";
        }

        cout<<endl;
    }
}

```

```

void print25(int n){
    for(int i=1; i<=n; i++){
        //space
        for(int j=1; j<= n-i; j++){
            cout<<" ";
        }

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

```

//inverted half parts

```

}

```

```

void print26(int n){
    for(int i=1; i<=n; i++){
        //space
    }
}

```

```
    for(int j=1; j<i; j++){  
        cout<<" ";  
    }
```

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

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

```
}
```

```
int main()  
{
```

```
    print25(5);  
    print26(5);
```

```
    return 0;  
}
```