

Day 9/180: Pattern Printing-2

First Pattern:

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

Solution:

```
#include<iostream>
using namespace std;

int main()
{
    for(int i=1;i<=7;i++)
    {
        for(int j=1;j<=i;j++)
        {
            if(j > 6) continue;
            cout<<j<<" ";
        }
        cout<<endl;
    }

    return 0;
}
```

Second Pattern:

A
A B
A B C
A B C D
A B C D E

Solution:

```
#include<iostream>
using namespace std;

int main(){
    for(int i=1;i<=5;i++){
        for(int j=0;j<i;j++){
            char value = ('A' + j);
            cout<<value<<" ";
        }
        cout<<endl;
    }
    return 0;
}
```

Solution 2:

```
#include<iostream>
using namespace std;

int main()
{
    for(char ch='A';ch<='E';ch++)
    {
        for(char val='A';val<=ch;val++)
        {
            cout<<val<<" ";
        }
        cout<<endl;
    }
    return 0;
}
```

Third Pattern:

```
10
10 11
10 11 12
10 11 12 13
10 11 12 13 14
10 11 12 13 14 15
```

Solution:

```
#include<iostream>
using namespace std;

int main()
{
    for(int i=10;i<=15;i++)
    {
        for(int j=10;j<=i;j++)
        {
            cout<<j<<" ";
        }
        cout<<endl;
    }

    return 0;
}
```

Fourth Pattern:

A B C D

A B C

A B

A

Solution 1:

```
#include<iostream>
using namespace std;

int main()
{
    for(char ch='D';ch>  ='A';ch--)
    {
        for(char val='A';val<=ch;val++)
        {
            cout<<val<<" ";
        }
        cout<<endl;
    }
    return 0;
}
```

Solution 2:

```
#include<iostream>
using namespace std;

int main()
{
    for(int i=4;i>=1;i--)
    {
        for(int j=0;j<i;j++)
        {
            char val = ('A' + j);
            cout<<val<<" ";
        }
        cout<<endl;
    }
    return 0;
}
```