Day 10/180: Pattern Printing-2

First Pattern: Take an input n from the user, and create a pattern like below, for n=5, we have output like this.

```
1
21
321
4321
54321
Solution:
```

```
#include<iostream>
using namespace std;
int main()
     int n;
     cin>>n;
    for(int i=1;i<=n;i++)</pre>
     {
         for(int j=1;j<=n;j++){</pre>
              if(j <= n - i){</pre>
                   cout<<" ";
              else{
                   cout<<n - j + 1<<" ";</pre>
              }
         cout<<endl;</pre>
     return 0;
```

Second Pattern: Take an input n from the user, and create a pattern like below, for n=5, we have output like this.

```
A
BB
CCC
DDDD
EEEEE
Solution:
```

```
#include<iostream>
using namespace std;
int main()
{
     int n;
    cin>>n;
    for(int i=1;i<=n;i++)</pre>
     {
         for(int j=1;j<=n;j++){</pre>
              if(j <= n - i){</pre>
                   cout<<" ";</pre>
              }
              else{
                   char value = ('A' + i - 1);
                   cout<<<value<<<" ";</pre>
         cout<<endl;</pre>
     return 0;
```

Third Pattern: Take an input n from the user, and create a pattern like below, for n=5, we have output like this.

```
5
54
543
5432
54321
```

Solution:

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

int main()
{
    int n;
    cin>>n;
    for(int i=1;i<=n;i++)
    {
        for(int j=1;j<=n-i;j++){
            cout<<" ";
        }
        for(int j=n;j>n-i;j--){
            cout<<j<<" ";
        }
        cout<<endl;
    }
    return 0;
}</pre>
```

Fourth Pattern: Take an input n from the user, and create a pattern like below, for n=5, we have output like this.

```
EDCBCDCBA
```

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

int main()
{
    int n;
    cin>n;
    for(int i=1;i<=n;i++)
    {
        for(int j=1;j<=n-i;j++){
            cout<<" ";
        }
        for(int j=n;j>n-i;j--){
            char value = ('A' + j - 1);
            cout<<value<<" ";
        }
        cout<<endl;
    }
    return 0;
}</pre>
```