Patterns Part 2

Pattern 1:

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

```
int i=1;
while(i<=n){
   int j=1;
   while(j<=n){
      cout<<j<<" ";
      j++;
   }
   cout<<endl;
   i++;
}</pre>
```

Pattern 2:

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

```
int i=1;
while(i<=n){
   int j=n;
   while(j>=1){
      cout<<j<<" ";
      j--;
   }
   cout<<endl;
   i++;
}</pre>
```

Pattern 3:

```
int i=1;
int count = 1;
while(i<=n){
   int j=1;
   while(j<=n){
      cout<<count<<" ";
      count++;
      j++;
   }
   cout<<endl;
   i++;
}
return 0;</pre>
```

Pattern 4:

```
*

* *

* * *

* * * *
```

```
int i=1;
while(i<=n){
   int j=1;
   while(j<=i){
      cout<<"* ";
      j++;
   }
   cout<<endl;
   i++;
}</pre>
```

Pattern 5:

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

```
int i=1;
while(i<=n){
   int j=1;
   while(j<=i){
      cout<<j<<" ";
      j++;
   }
   cout<<endl;
   i++;
}</pre>
```

Pattern 6:

```
1
2 3
4 5 6
7 8 9 10
```

```
int i=1;
int count = 1;
while(i<=n){
   int j=1;
   while(j<=i){
      cout<<count<<" ";
      count++;
      j++;
   }
   cout<<endl;
   i++;
}</pre>
```

Pattern 7:

```
1
2 3
3 4 5
4 5 6 7
5 6 7 8 9
```

```
int i=1;
int count;
while(i<=n){
   int j=1;
   count = i;
   while(j<=i){
      cout<<count<<" ";
      count++;
      j++;
   }
   cout<<endl;
   i++;
}</pre>
```

Pattern 8:

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

```
int i=1;
while(i<=n){
   int j=i;
   while(j>=1){
      cout<<j<<" ";
      j--;
   }
   cout<<endl;
   i++;
}</pre>
```

Pattern 9:

```
A A A A B B B B C C C C C D D D D D
```

```
int i=1;
while(i<=n){
   int j=1;
   while(j<=n){
      cout<<ch<<" ";
      j++;
   }
   ch++;
   cout<<endl;
   i++;
}</pre>
```

Pattern 10:

```
A B C D
A B C D
A B C D
A B C D
```

```
int i=1;
while(i<=n){
   int j=1;
   char ch = 'A';
   while(j<=n){
      cout<<ch<<" ";
      j++;
      ch++;
   }
   cout<<endl;
   i++;
}</pre>
```

Pattern 11:

```
ABCDEFGH
IJKL
MNOP
```

```
int i=1;
char ch = 'A';
while(i<=n){
   int j=1;
   while(j<=n){
      cout<<ch<<" ";
      ch++;
      j++;
   }
   cout<<endl;
   i++;
}</pre>
```

Pattern 12:

```
ABCBCDCDCDE
```

```
int i=1;
while(i<=n){
  int j=1;
  char ch = 'A'+i-1;
  while(j<=n){
     cout<<ch<<" ";
     ch++;
     j++;
  }
  cout<<endl;
  i++;
}</pre>
```

Pattern 13:

```
A
BBCCCC
DDDD
EEEEEE
```

```
int i=1;
char ch = 'A';
while(i<=n){
   int j=1;
   while(j<=i){
      cout<<ch<<" ";
      j++;
   }
   ch++;
   cout<<endl;
   i++;
}</pre>
```

Pattern 14:

```
A
B C
D E F
G H I J
```

```
int i=1;
char ch = 'A';
while(i<=n){
   int j=1;
   while(j<=i){
      cout<<ch<<" ";
      ch++;
      j++;
   }
   cout<<endl;
   i++;
}</pre>
```

Pattern 15:

```
A
BC
CDE
DEFG
```

```
int i=1;
while(i<=n){
   int j=1;
   char ch = 'A'+i-1;
   while(j<=i){
      cout<<ch<<" ";
      ch++;
      j++;
   }
   cout<<endl;
   i++;
}</pre>
```

Pattern 16:

```
D
C D
B C D
A B C D
```

```
int i=1;
while(i<=n){
    char ch = 'A'+n-i;
    int j=1;
    while(j<=i){
        cout<<ch<<" ";
        ch++;
        j++;
    }
    ch--;
    cout<<endl;
    i++;
}</pre>
```

Pattern 17:

```
* * * * *
```

```
int i=1;
while(i<=n){
   int j=n;
   while(j>i){
      cout<<" ";
      j--;
    }
   int k=1;
   while(k<=i){
      cout<<"* ";
      k++;
    }
   cout<<endl;
   i++;
}</pre>
```

Pattern 18:

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

```
int i=1;
while(i<=n){
   int j=n;
   while(j>=i){
      cout<<"* ";
      j--;
   }
   cout<<endl;
   i++;
}</pre>
```

Pattern 19:

```
int i=1;
while(i<=n){
   int k=2;
   while(k<=i){
      cout<<" ";
      k++;
   }
   int j=n;
   while(j>=i){
      cout<<"* ";
      j--;
   }
   cout<<endl;
   i++;
}</pre>
```

Pattern 20:

```
1 1 1 1
2 2 2
3 3
4
```

```
int i=1;
while(i<=n){
   int k=2;
   while(k<=i){
      cout<<" ";
      k++;
   }
   int j=n;
   while(j>=i){
      cout<<i<<" ";
      j--;
   }
   cout<<endl;
   i++;
}</pre>
```

Pattern 21:

```
2 2
3 3 3
4 4 4 4
```

```
int i=1;
while(i<=n){
   int j=n;
   while(j>i){
      cout<<" ";
      j--;
   }
   int k=1;
   while(k<=i){
      cout<<i<<" ";
      k++;
   }
   cout<<endl;
   i++;
}</pre>
```

Pattern 22:

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

```
int i=1;
while(i<=n){
   int j=n;
   while(j>=i){
      cout<<(n-j+i)<<" ";
      j--;
   }
   cout<<endl;
   i++;
}</pre>
```

Pattern 23:

```
1 2 3 4 5 6 7 8 9 10
```

```
int i=1;
int count = 1;
while(i<=n){
   int j=n;
   while(j>i){
      cout<<" ";
      j--;
   }
   int k=1;
   while(k<=i){
      cout<<count<<" ";
      count++;
      k++;
   }
   cout<<endl;
   i++;
}</pre>
```

Pattern 24:

```
1 2 1
1 2 3 2 1
1 2 3 4 3 2 1
```

```
int i=1;
while(i<=n){
 int j=n;
 while(j>i){
   cout<<" ";
   j--;
  int k=1;
 while(k<=i){
    cout<<k<<" ";
   k++;
  int l=2;
 while(l<=i){
   cout<<i-l+1<<" ";
    1++;
  cout<<endl;
  i++;
```

Pattern 25:

```
1 2 3 4 5 5 4 3 2 1
1 2 3 4 * * 4 3 2 1
1 2 3 3 * * * * 2 1
1 2 * * * * * * 2 1
1 * * * * * 1
```

```
int i=1;
while(i<=n){
  int j=1;
 while(j<=n-i+1){</pre>
   cout<<j<<" ";
    j++;
  int k=2;
  while(k<=i){
    cout<<"* * ";
    k++;
  int l=n;
 while(l>=i){
   cout<<l-i+1<<" ";
    1--;
  cout<<endl;
  i++;
```