



Pattern Programs

Pattern-1:

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

Pattern-2:

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

Pattern-3:

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



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



Pattern-4:

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



Pattern-5:

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



Pattern-6:

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

Pattern-6:

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



Pattern-7:

```
JJJJJJJJJJ  
IIIIIIIIII  
HHHHHHHHHHH  
GGGGGGGGGGG  
FFFFFFFFFFF  
EEEEEEEEE  
DDDDDDDDDDD  
CCCCCCCCCCC  
BBBBBBBBBBB  
AAAAAAA
```



Pattern-8:

```
JIHG FEDCBA  
JIHG FEDCBA
```



Pattern-9:

```
*
```

```
* *
```

```
* **
```

```
* ***
```

```
* ****
```

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

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





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

Code - 1:

```
|  
|
```

Code - 2:

```
|
```

Pattern-10:

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

```
|  
|
```

Pattern-11:

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

```
5 |
```



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



Pattern-12:

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



Pattern-13:

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





-
- ❖ Squares
 - ❖ Right Angled Triangle
 - ❖ Reverse of Right Angled Triangle

Pattern-14:

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



Pattern-15:

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





Pattern-16:

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



Pattern-17:

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



Pattern-18:

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



A B C
A B
A



Pattern-19:

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



Pattern-20:

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





Pattern-21:

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



Pattern-22:

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



Pattern-23:

```
*
```



```
**
```



```
***
```



```
****
```



```
*****
```



```
*****
```



```
*****
```



* * * * *

* * * * *

* * * * *

```
1) n=int(input("Enter the number of rows: "))
2) for i in range(1,n+1):
3)     print(" "* (n-i), "* * " * i, end=" ")
4)     print()
```

Pattern-24:

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

```
1) n=int(input("Enter the number of rows: "))
2) for i in range(1,n+1):
3)     print(" "**(n-i),end="")
4)     for j in range(1,i+1):
5)         print("*",end=" ")
6)     print()
```

Pattern-25:

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



9 9 9 9 9 9 9 9

10 10 10 10 10 10 10 10 10 10

```
1) n=int(input("Enter the number of rows: "))
2) for i in range(1,n+1):
3)     print(" "**(n-i),(str(i)+" ")*i)
4)     print()
```

Pattern-26:

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

```
1) n=int(input("Enter the number of rows: "))
2) for i in range(1,n+1):
3)     print(" "**(n-i),end="")
4)     for j in range(1,i+1):
5)         print(j,end=" ")
6)     print()
```

Pattern-27:

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



```
1) n=int(input("Enter the number of rows: "))
2) for i in range(1,n+1):
3)     print(" "*(n-i),(chr(64+i)+" ")*i)
4)     print()
```

Pattern-28:

```
A
AB
ABC
ABCD
ABCDE
ABCDEF
ABCDEFG
ABCDEFGH
ABCDEFGHI
ABCDEFGHIJ
```

```
1) n=int(input("Enter the number of rows: "))
2) for i in range(1,n+1):
3)     print(" "*(n-i),end="")
4)     for j in range(1,i+1):
5)         print(chr(64+j),end=" ")
6)     print()
```

Pattern-29:

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

Pattern-30:

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



Pattern-31:

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

```
1) n=int(input("Enter the number of rows: "))  
2) for i in range(1,n+1):  
3)     print(" "**(i-1),end="")  
4)     for j in range(1,n+2-i):  
5)         print(j,end=" ")  
6)     print()
```

Pattern-32:

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

Pattern-33:

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

```
1) n=int(input("Enter the number of rows: "))  
2) for i in range(1,n+1):  
3)     print(" "**(i-1),end="")  
4)     for j in range(65,66+n-i):  
5)         print(chr(j),end=" ")  
6)     print()
```



Pattern-34:

```
*\n***\n*****\n***** *\n***** *\n***** *
```



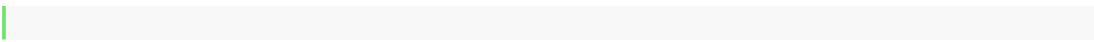
Pattern-35:

```
1\n2 2 2\n3 3 3 3\n4 4 4 4 4 4\n5 5 5 5 5 5 5
```



Pattern-36:

```
A\nB B B\nC C C C\nD D D D D D\nE E E E E E E
```



Pattern-37:

```
A\nC C C\nE E E E\nG G G G G G\nI I I I I I I I
```



Pattern-38:

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

```
1) n=int(input("Enter the number of rows: "))
2) for i in range(1,n+1):
3)     print(" "* (n-i),end="")
4)     for j in range(1,2*i):
5)         print(j,end=" ")
6)     print()
```

Pattern-39:

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

```
1) n=int(input("Enter the number of rows: "))
2) for i in range(1,n+1):
3)     print(" "* (n-i),end="")
4)     for j in range(2*i-1,0,-1):
5)         print(j,end=" ")
6)     print()
```

Pattern-40:

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

```
1) n=int(input("Enter the number of rows: "))
2) for i in range(1,n+1):
3)     print(" "* (n-i),end="")
4)     for j in range(65,65+2*i-1):
```



Pattern-41:

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

```
1) n=int(input("Enter the number of rows: "))  
2) for i in range(1,n+1):  
3)     print(" "**(n-i),end="")  
4)     for j in range(65+2*i-2,64,-1):  
5)         print(chr(j),end=" ")  
6)     print()
```

Pattern-42:

```
0  
1 0 1  
2 1 0 1 2  
3 2 1 0 1 2 3  
4 3 2 1 0 1 2 3 4
```

```
1) n=int(input("Enter the number of rows: "))  
2) for i in range(1,n+1):  
3)     print(" "**(n-i),end="")  
4)     for j in range(1,i):  
5)         print(i-j,end=" ")  
6)     for k in range(0,i):  
7)         print(k,end=" ")  
8)     print()
```

Pattern-43:

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



```

4) for j in range(1,i):
5)     print(chr(i-j+65),end=" ")
6) for k in range(0,i):
7)     print(chr(k+65),end=" ")
8) print()

```

Pattern-44:

```

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

```

```

1) n=int(input("Enter the number of rows: "))
2) for i in range(1,n+1):
3)     print(" "*(n-i),end="")
4)     for j in range(1,i+1):
5)         print(j,end=" ")
6)     for k in range(i-1,0,-1):
7)         print(k,end=" ")
8)     print()

```

Pattern-45:

```

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

```

```

1) n=int(input("Enter the number of rows: "))
2) for i in range(1,n+1):
3)     print(" "*(n-i),end="")
4)     for j in range(1,i+1):
5)         print(chr(64+j),end=" ")
6)     for k in range(1,i):
7)         print(chr(64+k),end=" ")
8)     print()

```

Pattern-46:

```

1) n=int(input("Enter a number:"))
2) for i in range(1,n+1):
3)     print(" "*(n-i),end="")
4)     for j in range(1,i+1):

```



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

Pattern-47:

```
1) num=int(input("Enter a number:"))  
2) for i in range(1,num+1):  
3)     print(" "**(i-1),end="")  
4)     for j in range(1,num+2-i):  
5)         print("*",end=" ")  
6)     for k in range(1,num+1-i):  
7)         print("*",end=" ")  
8)     print()  
  
* * * * * * *  
* * * * * * *  
* * * * *  
* * *  
*
```

Pattern-48:

```
1) num=int(input("Enter a number:"))  
2) for i in range(1,num+1):  
3)     print(" "**(i-1),end="")  
4)     for j in range(0,num+1-i):  
5)         print(num+1-i,end=" ")  
6)     for k in range(1,num+1-i):  
7)         print(num+1-i,end=" ")  
8)     print()
```

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



Pattern-49:

```

1) num=int(input("Enter a number:"))
2) for i in range(1,num+1):
3)     print(" "**(i-1),end="")
4)     for j in range(0,num+1-i):
5)         print(2*num+1-2*i,end=" ")
6)     for k in range(1,num+1-i):
7)         print(2*num+1-2*i,end=" ")
8)     print()

```

9 9 9 9 9 9 9 9
 7 7 7 7 7 7 7
 5 5 5 5 5
 3 3 3
 1

Pattern-50:

```

1) num=int(input("Enter a number:"))
2) for i in range(1,num+1):
3)     print(" "**(i-1),end="")
4)     for j in range(1,num+2-i):
5)         print(j,end=" ")
6)     for k in range(2,num+2-i):
7)         print(num+k-i,end=" ")
8)     print()

```

1 2 3 4 5 6 7
 1 2 3 4 5
 1 2 3
 1

Pattern-51:

```

1) num=int(input("Enter a number:"))
2) for i in range(1,num+1):
3)     print(" "**(i-1),end="")
4)     for j in range(1,num+2-i):
5)         print(chr(65+num-i),end=" ")
6)     for k in range(2,num+2-i):
7)         print(chr(65+num-i),end=" ")
8)     print()

```



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

Pattern-52:

```
1) num=int(input("Enter a number:"))  
2) for i in range(1,num+1):  
3)     print(" "**(i-1),end="")  
4)     for j in range(1,num+2-i):  
5)         print(chr(65+2*num-2*i),end=" ")  
6)     for k in range(2,num+2-i):  
7)         print(chr(65+2*num-2*i),end=" ")  
8)     print()
```

```
|||||||  
G G G G G G G  
E E E E E  
C C C C C C C  
A A A A A A A
```

Pattern-53:

```
1) num=int(input("Enter a number:"))  
2) for i in range(1,num+1):  
3)     print(" "**(i-1),end="")  
4)     for j in range(1,num+2-i):  
5)         print(chr(64+j),end=" ")  
6)     for k in range(2,num+2-i):  
7)         print(chr(68+k-i),end=" ")  
8)     print()
```

```
A B C D E F G  
A B C D E  
A B C  
A
```

Pattern-54:

```
1) num=int(input("Enter a number:"))  
2) for i in range(1,num+1):  
3)     print(" "*(num-i),end="")  
4)     for j in range(1,i+1):  
5)         print(j,end=" ")
```



```

6)   print()
7) for k in range(1,num):
8)   print(" "*k,end="")
9)   for l in range(1,num+1-k):
10)    print(l,end=" ")
11)   print()

```

```

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

```

Pattern-55:

```

1) num=int(input("Enter a number:"))
2) for i in range(1,num+1):
3)   print(" "*(num-i),end="")
4)   for j in range(1,i+1):
5)     print("*",end=" ")
6)   print()
7) for k in range(1,num):
8)   print(" "*k,end="")
9)   for l in range(1,num+1-k):
10)    print("*",end=" ")
11)   print()

*
*
*
*
*
*
*
*
*

```

Pattern-56:

```

1) num=int(input("Enter a number:"))
2) for i in range(1,num+1):
3)   print(" "*(num-i),end="")
4)   for j in range(1,i+1):

```



```
5)     print(num-j,end=" ")
6)     print()
7) for k in range(1,num):
8)     print(" "*k,end="")
9)     for l in range(1,num+1-k):
10)        print(num-l,end=" ")
11)    print()
```

```
4
4 3
4 3 2
4 3 2 1
4 3 2 1 0
4 3 2 1
4 3 2
4 3
4
```

Pattern-57:

```
1) num=int(input("Enter a number:"))
2) for i in range(1,num+1):
3)     print(" "*(num-i),end="")
4)     for j in range(0,i):
5)         print(num+j-i,end=" ")
6)     print()
7) for k in range(1,num):
8)     print(" "*k,end="")
9)     for l in range(1,num+1-k):
10)        print(l+k-1,end=" ")
11)    print()
```

```
3
2 3
1 2 3
0 1 2 3
1 2 3
2 3
3
```

Pattern-58:

```
1) num=int(input("Enter a number:"))
2) for i in range(1,num+1):
3)     print(" "*(num-i),end="")
4)     for j in range(0,i):
5)         print(chr(65+num+j-i),end=" ")
```



```

6) print()
7) for k in range(1,num):
8)     print(" "*k,end="")
9)     for l in range(0,num-k):
10)        print(chr(65+k+l),end=" ")
11)    print()

```

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

Pattern-59:

```

1) num=int(input("Enter a number:"))
2) for i in range(1,num+1):
3)     for j in range(1,i+1):
4)         print("*",end=" ")
5)     print()
6) for a in range(1,num+1):
7)     for k in range(1,num+1-a):
8)         print("*",end=" ")
9)     print()

```

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

Pattern-60:

```

1) num=int(input("Enter a number:"))
2) for i in range(1,num+1):
3)     for j in range(1,i+1):
4)         print(num-j,end=" ")
5)     print()
6) for a in range(1,num+1):
7)     for k in range(1,num+1-a):

```



```
4
4 3
4 3 2
4 3 2 1
4 3 2 1 0
4 3 2 1
4 3 2
4 3
4
```

Pattern-61:

```
4
3 4
2 3 4
1 2 3 4
0 1 2 3 4
1 2 3 4
2 3 4
3 4
4
```

Pattern-62:





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

Pattern-63:

```
1) for i in range(1,num+1):  
2)     for j in range(1,i+1):  
3)         print(chr(65+num-j),end=" ")  
4)     print()  
5) for a in range(1,num+1):  
6)     for k in range(num-a,0,-1):  
7)         print(chr(64+k+a),end=" ")  
8)     print()  
9) num=int(input("Enter a number:"))
```

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

Pattern-64:

```
1) num=int(input("Enter a number:"))  
2) for i in range(1,num+1):  
3)     for j in range(1,i+1):  
4)         print(chr(64+num-i+j),end=" ")  
5)     print()  
6) for a in range(1,num+1):  
7)     for k in range(1,num-a+1):  
8)         print(chr(64+k+a),end=" ")  
9)     print()
```



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

Pattern-65:

```
1) num=int(input("Enter a number:"))
2) for i in range(1,num+1):
3)     print(")*(num-i),end="")
4)     for j in range(1,i+1):
5)         print("*",end=" ")
6)     print()
```

```

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

Pattern-66:

```
1) num=int(input("Enter a number:"))
2) for i in range(1,num+1):
3)     print(")*(num-i),end="")
4)     for j in range(1,i+1):
5)         print(i,end=" ")
6)     print()
```

```

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

Pattern-67:

```
1) num=int(input("Enter a number:"))
2) for i in range(1,num+1):
3)     print(")*(num-i),end="")
```



```
4) for j in range(1,1+i):  
5)     print(j,end=" ")  
6)     print()
```

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

Pattern-68:

```
1) num=int(input("Enter a number:"))  
2) for i in range(1,num+1):  
3)     print(" "* (num-i),end="")  
4)     for j in range(1,1+i):  
5)         print(chr(64+i),end=" ")  
6)     print()
```

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

Pattern-69:

```
1) num=int(input("Enter a number:"))  
2) for i in range(1,num+1):  
3)     print(" "* (num-i),end="")  
4)     for j in range(1,1+i):  
5)         print(chr(64+j),end=" ")  
6)     print()
```

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

Pattern-70:

```
1) num=int(input("Enter a number:"))  
2) for i in range(1,num+1):  
3)     print(" "*(i-1),end="")  
4)     for j in range(1,num+2-i):
```



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

Pattern-71:

```
1) num=int(input("Enter a number:"))
2) for i in range(1,num+1):
3)     print(" "**(i-1),end="")
4)     for j in range(1,num+2-i):
5)         print(num-i+1,end=" ")
6)     print()
```

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

Pattern-72:

```
1) num=int(input("Enter a number:"))
2) for i in range(1,num+1):
3)     print(" "**(i-1),end="")
4)     for j in range(1,num+2-i):
5)         print(num+2-i-j,end=" ")
6)     print()
```

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

Pattern-73:

```
1) num=int(input("Enter a number:"))
2) for i in range(1,num+1):
3)     print(" "**(i-1),end="")
4)     for j in range(1,num+2-i):
5)         print(chr(65+num-i),end=" ")
6)     print()
```



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

Pattern-74:

```
1) num=int(input("Enter a number:"))
2) for i in range(1,num+1):
3)     print(" "*i,end="")
4)     for j in range(1,num+2-i):
5)         print(chr(65+num+1-i-j),end=" ")
6)     print()
```

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

Pattern-75:

```
1) num=int(input("Enter a number:"))
2) for i in range(1,num+1):
3)     print(" "*i,end="")
4)     for j in range(1,num+2-i):
5)         print(chr(64+j),end=" ")
6)     print()
```

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

Pattern-76:

```
1) num=int(input("Enter a number:"))
2) for i in range(1,num+1):
3)     print(" "*(num-i),end="")
4)     for j in range(1,i+1):
5)         print("*",end=" ")
6)     print()
7) for p in range(1,num):
8)     print(" "*p,end="")
```



```
|
```

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

Pattern-77:

```
|
```



```
|
```



```
|
```



```
|
```



```
|
```

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

Pattern-78:

```
|
```



```
|
```



```
|
```



```

8) print(" "*p,end="")
9) for q in range(1,num+1-p):
10)   print(q+p,end=" ")
11) print()

```

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

Pattern-79:

```

1) num=int(input("Enter a number:"))
2) for i in range(1,num+1):
3)   print(" "*(num-i),end="")
4)   for j in range(1,i+1):
5)     print(j,end=" ")
6)   print()
7) for p in range(1,num):
8)   print(" "*p,end="")
9)   for q in range(1,num+1-p):
10)     print(q,end=" ")
11) print()

```

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

Pattern-80:

```

1) num=int(input("Enter a number:"))
2) for i in range(1,num+1):
3)   print(" "*(num-i),end="")
4)   for j in range(1,i+1):
5)     print(chr(64+i),end=" ")
6)   print()

```



```

7) for p in range(1,num):
8)     print(" "*p,end="")
9)     for q in range(1,num+1-p):
10)        print(chr(64+num-p),end=" ")
11)    print()

```

A
B B
CCC
DDDD
EEEE
DDDD
CCC
BB
A

Pattern-81:

```

1) num=int(input("Enter a number:"))
2) for i in range(1,num+1):
3)     print(")*(num-i),end="")
4)     for j in range(1,i+1):
5)         print(chr(64+j),end=" ")
6)     print()
7) for p in range(1,num):
8)     print(" "*p,end="")
9)     for q in range(1,num+1-p):
10)        print(chr(64+q+p),end=" ")
11)    print()

```

A
AB
ABC
ABCD
ABCDE
BCDE
CDE
DE
E

Pattern-82:

```

1) n=int(input("Enter a number:"))
2) for i in range(1,n+1):
3)     print(")*(n-i),end="")
4)     for j in range(1,i+1):
5)         print(n-i+j,end=" ")

```



```

6) for k in range(2,i+1):
7)     print(n+1-k,end=" ")
8)     print()
9) for i in range(1,n+1):
10)    print(" "*i,end="")
11)    for j in range(1+i,n+1):
12)        print(j,end=" ")
13)    for k in range(2,n+1-i):
14)        print(n+1-k,end=" ")
15)    print()

```

```

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

```

Pattern-83:

```

1) while True:
2)     n=int(input("Enter a number:"))
3)     for i in range(1,n+1):
4)         print(" "*(n-i),end="")
5)         for j in range(1,i+1):
6)             print(n+1-j,end=" ")
7)             for k in range(2,i+1):
8)                 print(n-i+k,end=" ")
9)                 print()
10)    for i in range(1,n+1):
11)        print(" "*i,end="")
12)        for j in range(1,n+1-i):
13)            print(n+1-j,end=" ")
14)            for k in range(2,n+1-i):
15)                print(i+k,end=" ")
16)                print()

```

```

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

```



5

Pattern-84:

```

1) num=int(input("Enter a number:"))
2) for i in range(1,num+1):
3)     print(")*(num-i),end="")
4)     for j in range(i,i+1):
5)         print("*",end=" ")
6)         if i>=2:
7)             print(")*(2*i-4),end="")
8)             for k in range(i,i+1):
9)                 print("*",end=" ")
10)    print()

```

*
* *
* *
* *
* *

Pattern-85:

```

1) num=int(input("Enter a number:"))
2) for i in range(1,num+1):
3)     print(")*(num-i),end="")
4)     for j in range(i,i+1):
5)         print(i,end=" ")
6)         if i>=2:
7)             print(")*(2*i-4),end="")
8)             for k in range(i,i+1):
9)                 print(i,end=" ")
10)    print()

```

1
2 2
3 3
4 4
5 5

Pattern-86:

```

1) num=int(input("Enter a number:"))
2) for i in range(1,num+1):
3)     print(")*(num-i),end="")
4)     for j in range(i,i+1):

```



```

5)     print(num+1-i,end=" ")
6)     if i>=2:
7)         print(" "**(2*i-4),end="")
8)         for k in range(i,i+1):
9)             print(num+1-i,end=" ")
10)    print()

```

5
4 4
3 3
2 2
1 1

Pattern-87:

```

1) num=int(input("Enter a number:"))
2) for i in range(1,num+1):
3)     print(" "*(num-i),end="")
4)     for j in range(i,i+1):
5)         print(chr(64+num+1-i),end=" ")
6)         if i>=2:
7)             print(" "**(2*i-4),end="")
8)             for k in range(i,i+1):
9)                 print(chr(64+num+1-i),end=" ")
10)    print()

```

E
D D
C C
B B
A A

Pattern-88:

```

1) num=int(input("Enter a number:"))
2) for i in range(1,num+1):
3)     print(" "*(num-i),end="")
4)     for j in range(i,i+1):
5)         print(chr(64+i),end=" ")
6)         if i>=2:
7)             print(" "**(2*i-4),end="")
8)             for k in range(i,i+1):
9)                 print(chr(64+i),end=" ")
10)    print()

```



A
B B
C C
D D
E E

Pattern-89:

```

1) num=int(input("Enter a number:"))
2) for i in range(1,num+1):
3)     print(")*(i-1),end="")
4)     for j in range(i,i+1):
5)         print("*",end=" ")
6)         if i<=4:
7)             print(")*(2*num-2*i-2),end="")
8)             for k in range(i,i+1):
9)                 print("*",end=" ")
10)    print()

*   *
*   *
* *
* *
*

```

Pattern-90:

```

1) num=int(input("Enter a number:"))
2) for i in range(1,num+1):
3)     print(")*(i-1),end="")
4)     for j in range(i,i+1):
5)         print(i,end=" ")
6)         if i<num:
7)             print(")*(2*num-2*i-2),end="")
8)             for k in range(i,i+1):
9)                 print(i,end=" ")
10)    print()

1   1
2   2
3 3
4 4
5

```



Pattern-91:

```

1) num=int(input("Enter a number:"))
2) for i in range(1,num+1):
3)     print(" "* (i-1),end="")
4)     for j in range(i,i+1):
5)         print(num-i+1,end=" ")
6)         if i<=4:
7)             print(" "*(2*num-2*i-2),end="")
8)             for k in range(i,i+1):
9)                 print(num-i+1,end=" ")
10)    print()

```

5 5
4 4
3 3
2 2
1

Pattern-92:

```

1) num=int(input("Enter a number:"))
2) for i in range(1,num+1):
3)     print(" "*(i-1),end="")
4)     for j in range(i,i+1):
5)         print(chr(64+num-i+1),end=" ")
6)         if i<=4:
7)             print(" "*(2*num-2*i-2),end="")
8)             for k in range(i,i+1):
9)                 print(chr(64+num-i+1),end=" ")
10)    print()

```

E E
D D
C C
B B
A

Pattern-93:

```

1) num=int(input("Enter a number:"))
2) for i in range(1,num+1):
3)     print(" "*(i-1),end="")
4)     for j in range(i,i+1):
5)         print(chr(64+i),end=" ")
6)         if i<=4:

```



```

7)     print(" "* (2*num-2*i-2),end="")
8)     for k in range(i,i+1):
9)         print(chr(64+i),end=" ")
10)    print()

```

A A
B B
C C
D D
E

Pattern-94:

```

1) num=int(input("Enter a number:"))
2) for i in range(1,num+1):
3)     print(" "*(i-1),end="")
4)     for j in range(1,num+1):
5)         print("*",end=" ")
6)     print()

```

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

Pattern-95:

```

1) num=int(input("Enter a number:"))
2) for i in range(1,num+1):
3)     print(" "*(num-i),end="")
4)     for j in range(1,i+1):
5)         print("*",end=" ")
6)     print(" "*(num-i),end="")
7)     for k in range(1,i+1):
8)         print("*",end=" ")
9)     print()

```

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



Pattern-96:

```

1) n=int(input("Enter a number:"))
2) for i in range(1,n+1):
3)     for j in range(1,i+1):
4)         if (i%2!=0 and j%2!=0 )or(i%2==0 and j%2==0):
5)             print("1",end=" ")
6)         else:
7)             print("0",end=" ")
8)     print()
  
```

```

1
0 1
1 0 1
0 1 0 1
1 0 1 0 1
0 1 0 1 0 1
1 0 1 0 1 0 1
  
```

Pattern-97:

```

1) num=int(input("Enter a number:"))
2) for i in range(1,num+1):
3)     print(" "* (2*num-i+3),end="")
4)     for j in range(1,i+1):
5)         print("*",end=" ")
6)     print()
7) for i in range(1,num+3):
8)     print(" "* (2*num-i+1),end="")
9)     for j in range(-1,i+1):
10)        print("*",end=" ")
11)    print()
12) for i in range(1,num+5):
13)     print(" "* (2*num-i),end="")
14)     for j in range(-2,i+1):
15)         print("*",end=" ")
16)     print()
17) for i in range(1,num+3):
18)     print(" "* ((2*num)),end="")
19)     print("* *3)
  
```



Pattern-98:

```
1) num=int(input("Enter a number"))
2) for i in range(1,num+1):
3)     print(" "* (2*num-i),end="")
4)     for j in range(1,i+1):
5)         print("*",end=" ")
6)     print()
7) for i in range(1,num+1):
8)     print(" "*(num-i),end="")
9)     for j in range(1,i+1):
10)        print("*",end=" ")
11)    print(" "*(num-i),end="")
12)    for k in range(1,i+1):
13)        print("*",end=" ")
14)    print()
```

*
* *
* * *
* * * *
*



* * * * * * * * * *

Pattern-99:

```
1) n=int(input("Enter a number"))
2) for i in range(1,2*n+1):
3)     if i%2==0:
4)         print("*"*i,end=" ")
5)     else:
6)         print("*"*(i+1),end=" ")
7) print()
```

Pattern-100:

```
1) n=int(input("Enter a number:"))
2) for a in range(1,n+1,2):
3)     for i in range(1,n+1):
4)         print(" "* (2*n-i-a),end="")
5)         for j in range(1,i+a):
6)             print("*",end=" ")
7)         print()
8) for b in range(1,n+1):
9)     print(" "* (n-2),end="")
10)    print("* "*3)
```

