

# Pattern Programs

## Pattern-1:

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

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

## 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
```

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

## 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

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

## Pattern-4:

AAAAAAAAAAAA  
BBBBBBBBBBBB  
CCCCCCCCCCCC  
DDDDDDDDDDDD  
EEEEEEEEEEEE  
FFFFFFFFFFFF  
GGGGGGGGGGGG  
HHHHHHHHHHHH  
IIIIIIIIII  
JJJJJJJJJJ

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

## Pattern-5:

ABCDEFGHIJ  
ABCDEFGHIJ  
ABCDEFGHIJ  
ABCDEFGHIJ  
ABCDEFGHIJ  
ABCDEFGHIJ  
ABCDEFGHIJ  
ABCDEFGHIJ  
ABCDEFGHIJ  
ABCDEFGHIJ

```

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

```

## Pattern-6:

```

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

```

```

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

```

## 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

```

```

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

```

## Pattern-7:

```
JJJJJJJJJ
IIIIIIIII
HHHHHHHHH
GGGGGGGGG
FFFFFFFFF
EEEEEEEEEE
DDDDDDDDDD
CCCCCCCCC
BBBBBBBBB
AAAAAAAAA
```

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

## Pattern-8:

```
JIHGFEDCBA
JIHGFEDCBA
JIHGFEDCBA
JIHGFEDCBA
JIHGFEDCBA
JIHGFEDCBA
JIHGFEDCBA
JIHGFEDCBA
JIHGFEDCBA
JIHGFEDCBA
```

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

## Pattern-9:

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

\*\*\*\*\*  
\*\*\*\*\*  
\*\*\*\*\*

#### Code - 1:

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

#### Code - 2:

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

### 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
```

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

### 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
```

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

## Pattern-12:

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

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

## 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

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

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

## Pattern-14:

```

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

```

```

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

```

## Pattern-15:

```

1 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

```

```

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

```



## 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
```

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

## Pattern-17:

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

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

## 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

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

## Pattern-19:

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

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

## 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

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

## Pattern-21:

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

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

## 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
```

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

## 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 6
7 7 7 7 7 7 7
8 8 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 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:

```

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

```

```

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

```

## Pattern-30:

```

55555
4444
333
22
1

```

```

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

```

## 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
  C C C
   B B
    A

```

```

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

```

## 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:

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

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

## Pattern-35:

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

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

## Pattern-36:

```
  A
 BBB
CCCCC
DDDDDDD
EEEEEEEE
```

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

## Pattern-37:

```
  A
 CCC
EEEE
GGGGGG
IIIIII
```



```

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

```

## 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):

```

```
6) print()
```

## Pattern-41:

```
A
CBA
EDCBA
GFEDCBA
IHGFEDCBA
```

```
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
BAB
CBABC
DCBABCD
EDCBABCDE
```

```
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(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)     print(n+1-j,end=" ")
6)     print()

```

```

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
4 4 4 4 4 4
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
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()
```

```

EEEEEEEEEE
DDDDDDDD
CCCCC
BBB
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()

```

```

I I I I I I I I
G G G G G G G
E E E E E
C C C
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-l,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
  DE
CDE
BCDE
ABCDE
BCDE
CDE
DE
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):

```

```

8)    print(num-k,end=" ")
9)    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-61:

```

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-i+j-1,end=" ")
5)     print()
6) for a in range(1,num+1):
7)     for k in range(0,num-a):
8)         print(k+a,end=" ")
9)     print()

```

```

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:

```

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

```

```

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+j),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-1),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-1),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="")

```

```

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

```

```

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

```

## Pattern-77:

```

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

```

```

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:

```

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

```

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

```

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

```

## 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):

```

