





Pattern Programs

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

```
1111111111
222222222
333333333
444444444
555555555
666666666
777777777
888888888
999999999
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):
- for j in range(1,n+1):
- 4) print(i,end=" ")
- 5) print()

Pattern-3:

12345678910 12345678910 12345678910







```
12345678910
12345678910
12345678910
12345678910
12345678910
12345678910
```

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

Pattern-4:

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

Pattern-5:

```
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): for j in range(1,n+1): print(chr(64+j),end=" ") 4) 5) print()

Pattern-6:

```
10 10 10 10 10 10 10 10 10 10
999999999
888888888
777777777
666666666
555555555
444444444
3333333333
222222222
1111111111
  1) n=int(input("Enter the number of rows: "))
  2) for i in range(1,n+1):
```

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

Pattern-6:

```
10987654321
10987654321
10987654321
10987654321
10987654321
10987654321
10987654321
10987654321
10987654321
10987654321
  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:

- 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

- 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:

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

Code - 2:

1

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

Pattern-10:

```
22
333
4444
55555
666666
777777
8888888
99999999
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
12
123
1234
12345
123456
1234567
```







123456789 12345678910

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

Pattern-12:

```
A
BB
CCC
DDDD
EEEEE
FFFFF
GGGGGG
HHHHHHHH
IIIIIIIII
JJJJJJJJJJ
```

- 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
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) 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:

```
********

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**

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="")
```

Pattern-15:

print()

```
111111111
222222222
33333333
4444444
55555
66666
7777
888
99
```

- 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:

```
123456789
12345678
1234567
123456
12345
12345
1234
```

```
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:

```
AAAAAAAAAA
BBBBBBBB
CCCCCCC
DDDDDD
EEEEEE
FFFFF
GGGG
HHH
II
```

```
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:

```
ABCDEFGHIJ
ABCDEFGHI
ABCDEFG
ABCDEF
ABCDEF
ABCDE
```







```
ABC
AB
A
```

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

Pattern-19:

```
10 10 10 10 10 10 10 10 10 10
99999999
8888888
777777
666666
55555
4444
333
22
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:

```
10987654321
1098765432
109876543
10987654
1098765
109876
10987
1098
109
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()
```



1111111111





Pattern-21:

```
IIIIIIIII
HHHHHHHHH
GGGGGGG
FFFFFF
EEEEE
DDDD
CCCC
BB
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=" ")
```

Pattern-22:

JIHGFEDCBA

print()

5)

```
JIHGFEDCB
JIHGFEDC
JIHGFED
JIHGFE
JIHGF
JIHG
JIH
JΙ
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
22
333
4444
55555
666666
777777
```







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
12
123
1234
12345
123456
1234567
12345678
123456789
```

```
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
BB
CCC
DDDD
EEEEE
FFFFFF
GGGGGGG
```







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
ABCDE
ABCDEF
ABCDEFG
ABCDEFGH
ABCDEFGHIABCDEFGHIJ
```

- 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) 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:

```
12345
1234
123
12
12
```

```
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):
- 6) print()

Pattern-32:

```
EEEEE
DDDD
CCC
BB
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:

```
ABCDE
ABCD
ABC
AB
```

- 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
222
33333
444444
5555555

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
EEEEEEEEE

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
EEEEE
GGGGGGG
```







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

Pattern-38:

1 123

```
12345
1234567
123456789

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=" ")
```

Pattern-39:

print()

6)

```
1
321
54321
7654321
987654321

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:

Α

```
ABC
ABCDE
ABCDEFG
ABCDEFG
ABCDEFGHI

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):
```







```
5) print(chr(j),end=" ")
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
101
21012
3210123
432101234

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
EDCBABCD

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
   121
  12321
 1234321
123454321
   1) n=int(input("Enter the number of rows: "))
   2) for i in range(1,n+1):
         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:

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







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

5
54
543
5432
54321
```

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):
    print("*",end=" ")
6) for k in range(1,num+1-i):
    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()
```

```
55555555
4444444
33333
222
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()
```

```
999999999
777777
55555
333
```

Pattern-50:

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

```
1234567
12345
123
```

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()
```







```
EEEEEEEE

DDDDDDD

CCCCC

BBB
```

Pattern-52:

```
1) num=int(input("Enter a number:"))
   2) for i in range(1,num+1):
        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=" ")
        print()
  8)
GGGGGGG
   EEEEE
    C
      Α
```

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 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=" ")
```







```
print()
 7) for k in range(1,num):
 8) print(" "*k,end="")
 9)
      for I in range(1,num+1-k):
 10)
        print(l,end=" ")
 11) print()
   1
  12
 123
1234
12345
 1234
 123
  12
   1
```

Pattern-55:

```
1) num=int(input("Enter a number:"))
2) for i in range(1,num+1):
     print(" "*(num-i),end="")
4) for j in range(1,i+1):
5)
        print("*",end=" ")
6)
      print()
7) for k in range(1,num):
     print(" "*k,end="")
8)
9)
      for I in range(1,num+1-k):
        print("*",end=" ")
10)
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):
       print(" "*k,end="")
 9)
       for I in range(1,num+1-k):
         print(num-l,end=" ")
 10)
 11)
       print()
   4
   43
 432
4321
43210
 4321
  432
   43
    4
```

Pattern-57:

```
1) num=int(input("Enter a number:"))
  2) for i in range(1,num+1):
       print(" "*(num-i),end="")
  3)
  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 I in range(1,num+1-k):
  10)
         print(l+k-1,end=" ")
 11)
       print()
  3
  23
 123
0123
 123
  23
  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="")
```







```
print()
7) for k in range(1,num):
8) print(" "*k,end="")
9)
     for I in range(0,num-k):
       print(chr(65+k+l),end=" ")
10)
11) print()
   Ε
  DΕ
 CDE
BCDE
ABCDE
BCDE
 CDE
  DΕ
   Ε
```

Pattern-59:

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
43
432
4321
43210
4321
4322
433
```

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):
           print(k+a,end=" ")
   8)
   9)
          print()
4
3 4
234
1234
01234
1234
234
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
DD
CCC
BBBB
AAAAA
BBBB
CCC
DD
```

Pattern-63:

```
1) for i in range(1,num+1):
         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=" ")
         print()
   9) num=int(input("Enter a number:"))
Ε
E D
E D C
EDCB
EDCBA
EDCB
E D C
E D
Ε
```

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
DE
CDE
BCDE
ABCDE
CDE
CDE
```

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()

*
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* * * *

* * * *
```

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
22
333
4444
55555
```

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
12
123
1234
12345
```

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
BB
CCC
DDDD
EEEEE
```

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
AB
ABC
```

Pattern-70:

A B C D E

```
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) print()

* * * * *

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* * *
```

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
```

Pattern-72:

1

```
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
```

```
54321
4321
321
21
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()
```







EEEEE DDDD CCC BB

Pattern-74:

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

EDCBA DCBA CBA BA A

Pattern-75:

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

ABCDE ABCD ABC AB

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) num=int(input("Enter a number:"))
   2) for i in range(1,num+1):
        print(" "*(num-i),end="")
   3)
   4) for j in range(1,i+1):
   5)
          print(i,end=" ")
   6)
        print()
   7) for p in range(1,num):
        print(" "*p,end="")
   8)
   9)
        for q in range(1,num+1-p):
   10) print(num-p,end=" ")
        print()
  11)
  1
 22
333
4444
55555
4444
333
 22
  1
```

Pattern-78:

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







```
print(" "*p,end="")
   9)
        for q in range(1,num+1-p):
  10)
          print(q+p,end=" ")
  11)
        print()
 1
 12
123
1234
12345
2345
3 4 5
 45
 5
```

Pattern-79:

```
1) num=int(input("Enter a number:"))
   2) for i in range(1,num+1):
         print(" "*(num-i),end="")
   3)
   4)
         for j in range(1,i+1):
   5)
           print(j,end=" ")
   6)
         print()
   7) for p in range(1,num):
         print(" "*p,end="")
   9)
         for q in range(1,num+1-p):
   10)
           print(q,end=" ")
   11)
         print()
    1
  12
  123
 1234
12345
 1234
  123
   12
    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):
        print(" "*p,end="")
   9)
        for q in range(1,num+1-p):
          print(chr(64+num-p),end=" ")
   10)
   11)
        print()
   Α
  ВВ
 CCC
DDDD
EEEEE
 DDDD
 CCC
   ВВ
   Α
```

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="")
         for q in range(1,num+1-p):
   10)
           print(chr(64+q+p),end=" ")
         print()
   11)
   Α
   ΑВ
 A B C
ABCD
ABCDE
 BCDE
 CDE
   DΕ
   Ε
```

Pattern-82:

```
    n=int(input("Enter a number:"))
    for i in range(1,n+1):
    print(" "*(n-i),end="")
    for j in range(1,i+1):
    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
   454
 34543
 2345432
123454321
 2345432
 34543
   454
    5
```

Pattern-83:

```
1) while True:
   2)
         n=int(input("Enter a number:"))
         for i in range(1,n+1):
   4)
           print(" "*(n-i),end="")
   5)
           for j in range(1,i+1):
             print(n+1-j,end=" ")
   6)
   7)
           for k in range(2,i+1):
             print(n-i+k,end=" ")
   8)
   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=" ")
           print()
  16)
     5
   545
  54345
 5432345
543212345
 5432345
  54345
   545
```







5

Pattern-84:

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

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=" ")
         print()
   10)
 5
 44
3 3
2
```

Pattern-87:

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

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
BB
CC
DD
```

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):
        print(i,end=" ")
5)
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 1
2 2
3 3
44
5
```







Pattern-91:

```
1) num=int(input("Enter a number:"))
   2) for i in range(1,num+1):
         print(" "*(i-1),end="")
   3)
   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
4
   4
3 3
 22
```

Pattern-92:

5

1

Ε

Α

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

Pattern-93:

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







Pattern-94:

```
    num=int(input("Enter a number:"))
    for i in range(1,num+1):
    print(" "*(i-1),end="")
    for j in range(1,num+1):
    print("*",end=" ")
    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(" "*(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
01
101
0101
10101
010101
1010101
```

Pattern-97:

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







Pattern-98:

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







```
** **

*** ***

****
```

Pattern-99:

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







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