## Row and column in nested loop

```
i = rows j = columns
for i in range(5):
 for j in range(5):
   print('*',end='')
  print()
     ****
     ****
     ****
     ****
     ****
for i in range(4):
 for j in range(5):
   print('*',end='')
  print()
****
     ****
     ****
for i in range(5):
  for j in range(4):
   print('*',end='')
  print()
     ****
     ****
     ****
```

```
#wrong
n = int(input())
for i in range(1, n + 1):
 print(i,end='')
 for j in range(1, n + 1):
   print(j,end='')
   for k in range(1, n + 1):
     print(k,end='')
    111232123312321123212331233112321233123
n = int(input("Enter the value of n: ")) # n = 3
for i in range(1, n + 1): # for i in range(1,4):
                                                      i =
   for j in range(1, n + 1): # for j in range(1,4):
                                                                j = 123
       print(j, end="")
   print()
    Enter the value of n: 3
    123
    123
    123
```

2: WAP that will print a pattern based on the input integer n. Please see the sample input output.

3:WAP that will print a pattern based on the input integer n. Please see the sample input output.

```
n = int(input("Enter the value of n: ")) # n =
k = 2
for i in range(1, n + 1):
   for j in range(l, k):
     print(j, end="")
   print()
   1+=1
    Enter the value of n: 3
    1
    23
    345
n = int(input("Enter the value of n: ")) # n = 3
for i in range(1, n + 1): # i = 3
   for j in range(i,i+i): # for j in range(i,2i): range(3,6) j = 345
       print(j, end="")
   print()
    Enter the value of n: 3
    23
    345
```

```
n = int(input("Enter the value of n: "))
k = 1
1 = 1
for i in range(1, n + 1):
    for j in range(l, k):
       print(j, end="")
        # while k == 4:
        # break
    print()
   1+=1
n = int(input("Enter the value of n: "))
# Outer loop to iterate over rows
for i in range(1, n + 1):
    # Inner loop to print numbers for each row
    for j in range(i):
       print(i, end="")
    print() # Move to the next line after printing each row
     Enter the value of n: 3
     22
     333
n = int(input("Enter the value of n: "))
# Outer loop to iterate over rows
for i in range(1, n + 1):
    # Print spaces
   print("_" * (n - i), end="")
    # Inner loop to print numbers for each row
    for j in range(i):
       print(i, end="")
    print() # Move to the next line after printing each row
     Enter the value of n: 3
     _1
     _22
```

```
n = int(input("Enter the value of n: "))
for i in range(3)

n = int(input("Enter the value of n: "))
k = n-1
l = n

for i in range(1, n + 1):
    for j in range(1, k,-1):  # for j in range(3,2,-1)
        print(j, end="")
    print()
k-=1

Enter the value of n: 4
4
43
432
432
4321
```

```
n = int(input("Enter the value of n: "))

for i in range(n):
    for j in range(n, (n-i-1),-1):  # for j in range(3,2,-1)
        print(j, end="")
    print()

    Enter the value of n: 4
    43
    432
    4321

for i in range(3,1,-1):
    print(i)
    3
    2
```

6:WAP that will print a pattern based on the input integer n. Please see the sample input output.

```
n = int(input("Enter the value of n: "))
k = 2
1 = 1

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

    Enter the value of n: 3
    1
    12
    123
```

7: WAP that will print a pattern based on the input integer n. Please see the sample input output.

```
n = int(input("Enter the value of n: "))
for i in range(n):
    for j in range(n):
        print('*',end=' ')
    print()

    Enter the value of n: 2
         * *
         * *
```

9: WAP that will print a pattern based on the input integer n. Please see the sample input output.

```
n = int(input("Enter the value of n: "))
1 = n
for i in range(n):
 for j in range(k,l+1):
   if j%2 == 0:
    print(1,end=' ')
   else:
    print(0,end=' ')
 k+=1
 1+=1
 print()
    Enter the value of n: 5
    101010
    010101
    101010
    010101
    101010
```

```
n = int(input("Enter the value of n: ")) # n = 5
for i in range(1,n+1):
                                       # for i in range(1, 6):
  print(' '*(n-i),end='')
 for j in range(i):
   print('*',end='')
  print()
#output:
     Enter the value of n: 5
       **
      ***
      ****
     ****
n = int(input("Enter the value of n: ")) # n = 5
for i in range(1,n+1):
                                      # for i in range(1, 6):
  print(' '*(n-i),end='')
 for j in range(i):
   print('*',end=' ')
  print()
     Enter the value of n: 5
       * *
      * * *
     * * * *
     * * * * *
```

```
n = int(input("Enter the value of n: "))
# Outer loop to iterate over rows
for i in range(1, n + 1):
    # Print spaces
    print(" " * (n - i), end="")

# Inner loop to print numbers for each row
for j in range(i):
    print(i, end="")
print() # Move to the next line after printing each row

Enter the value of n: 5
    1
    22
    333
    4444
55555
```

11:WAP that will print a pattern based on the input integer n. Please see the sample input output.

```
n = int(input("Enter the value of n: ")) # n = 5
k = '*'
1 = 0
                                     # for i in range(1, 6):
for i in range(1,n+1):
 print(' '*(n-i),end='')
                                           #print(' '*(n-i),end='') --> print(' '*(5-3),end='')
                                        for j in range(i): for j in range(3):
 for j in range(i):
  print('*',end='')
                                          # print('*',end='')
                                          #print(k*1)
 print(k*1)
                                                                   print('*'*2)
                                                           1 =3
 1+=1
                                         #1 +=1
                                          #print()
 print()
#output:
  ***
    Enter the value of n: 5
       ***
      ****
     *****
     *****
```

```
n = int(input("Enter the value of n: ")) # n = 5
k = '*'
1 = 0
                                      # for i in range(1, 6):
for i in range(1,n+1):
                                              #print(' '*(n-i),end='') --> print(' '*(5-3),end='')
  print(' '*(n-i),end='')
 for j in range(i):
                                         for j in range(i): for j in range(3):
  print('*',end='')
                                             # print('*',end='')
  print(k*1)
                                                                     print('*'*2)
                                           #print(k*1)
 1+=1
                                           #1 +=1
 print()
p = n-1 \# p = 2
1 = n-2 \# 1 = 1
                          # for i in range(1,4):
for i in range(1,n+1):
                           # print(' '*(n-p))
 print(' '*(n-p),end='')
  for j in range(p):
   print('*',end='')
  print(k*1)
  1-=1
  p-=1
  print()
    Enter the value of n: 3
     ***
     ****
     ***
num=int(input("Enter an odd number: "))  # num = 3
n1=num//2+1 # n1 = 2
n2=num-n1
                   # n2 = 3-2 = 1
n3=n2
                 # n3 = 1
# print(n1)
for i in range(1,n1+1):
                          # for i in range(1,3):
                                # for j in range(1-i):
    for j in range(n1-i):
      print("_",end="")
    for k in range(1,i*2):
      print("*",end="")
   print()
for i in range(1,n2+1):
   for j in range(i):
      print("_",end="")
    for k in range(n3*2):
     print("*",end="")
    print()
   n3-=1
    Enter an odd number: 3
    _*
***
    _**
num=int(input("Enter an odd number: ")) # num = 3
n1=num//2+1 # n1 = 2
n2=num//2
                    # n2 = 1
n3=n2*2
                    # n3 = 2
                          # for i in range(1,3):
for i in range(1,n1+1):
    for j in range(n1-i):
                                    # for j in range(2-i):
      print("_",end="")
    for k in range(1,i*2):
                                    # for k in range(1,i*2):
       print("*",end="")
   print()
for i in range(1,n2+1):
                             # for i in range(1,3):
    for j in range(i):
                                    # for j in range(i):
      print("_",end="")
                                    # for k in range(1,4):
    for k in range(1,n3):
      print("*",end="")
   print()
   n3-=2
```

```
Enter an odd number: 3

-*
***
*
```

## problem

# 1 \_ \_ \_ \_ 1

```
# 1 2 _ _ _ 2 1
# 1 2 3 _ 3 2 1
# 1 2 3 4 3 2 1
Solve
n=int(input("Enter the terms:"))
for i in range(1,n+1):
    for j in range(1,i+1):
       print(j,end="")
    for k in range(n-i):
       print("_",end="")
    for l in range(n-i-1):
        print("_", end="")
    for m in range(i,0,-1):
        if m==n:
           continue
        else:
            print(m, end="")
    print()
     Enter the terms:4
     1____1
12___21
     123_321
     1234321
n = int(input())
for i in range(1,n+1):
  for j in range(1,i+1):
   print(j,end="")
  for j in range(i,n):
   print(' ',end='')
  for j in range(i,n):
   print(' ',end='')
  for j in range(i,0,-1):
      if j==n:
            continue
      else:
            print(j, end="")
  print()
     4
            1
     1
          21
     12
     123 321
     1234321
```

```
n = int(input("Enter the value of n: "))
for i in range(n):
  for j in range(n*2):
   print(j,end='')
  print()
1 = 2
p = n-1
for i in range(1,n+1):
  print(' '*(n-1),end='')
  for j in range(i):
   print(j,end='')
  1+=1
  p-=1
  print()
     Enter the value of n: 4
     01234567
     01234567
     01234567
     01234567
      0
      01
     012
     0123
n = int(input("Enter the value of n: "))
for i in range(1,n+1):
  for j in range(1,n+1):
    print(j,end='')
  print()
n = int(input("Enter the value of n: "))
for i in range(1, n + 1):
    for j in range(1, 2 * n):
        if j <= i:
            print(j, end='')
        else:
            print('_', end='')
    print()
     Enter the value of n: 4
     12
     123_
     1234
n = int(input("Enter the value of n: "))
for i in range(1, n + 1):
    # Print numbers from 1 to i
    for j in range(1, i + 1):
        print(j, end=' ')
    # Print underscores for remaining spaces
    for k in range(1, 2 * (n - i) + 1):
        print('_ ', end='')
    # Print numbers from i down to 1
    for l in range(i, 0, -1):
        print(1, end=' ')
    print()
     Enter the value of n: 4
     1 _ _ _ _ 1
     1 2 _ _ _ 2 1
1 2 3 _ _ 3 2 1
1 2 3 4 4 3 2 1
```

 14:WAP that will print a pattern based on the input integer n. Please see the sample input output.

```
n = int(input("Enter the value of n: "))
1 = n
for i in range(n):
  for j in range(n):
   if i\%2 == 0 and j\%(n-1) == 0:
     print(1,end=' ')
     print(0,end=' ')
  print()
    Enter the value of n: 5
    10001
    00000
    10001
    00000
    10001
n = int(input("Enter the value of n: "))
for i in range(n):
 for j in range(n):
   if i\%2 == 0 or j\%(n-1) == 0:
     print('*',end=' ')
   else:
     print(' ',end=' ')
  print()
     Enter the value of n: 5
    * * * * *
```

### output not same

15: WAP that will print a pattern based on the input odd integer n. Please see the sample input output.

```
n = int(input("Enter the value of n: "))
k = n
for i in range(n+1):
 for j in range(n):
    if i == 0 or i == n or j == k:
      print('Z',end=' ')
    else:
      print(' ',end=' ')
  k-=1
  print()
      Enter the value of n: 5
     Z Z Z Z
             Ζ
         Z
        Z
     \mathsf{Z} \ \mathsf{Z} \ \mathsf{Z} \ \mathsf{Z} \ \mathsf{Z}
```

```
#j=0 1 2 3 4
# * _ _ _ *
# _ * _ * _ *
# _ * _ * _ *
# _ * _ * _ *
                       i = 0
                       i = 1
                       i = 2
                       i = 3
                        i = 4
Problem
n = int(input("Enter the value of n: "))
for i in range(n):
  for j in range(n):
     if (i == 0 and j == 0 ) or (i == 0 and j == (n-1) ) or (j == 0 and i == (n-1) ) or (i == (n-1) and j == (n-1)) or (i == j) :
       print('* ',end='')
     else:
       print(' ',end='')
   print()
      Enter the value of n: 5
n = int(input("Enter the value of n: "))
                                                                 # n = 5
# Outer loop to iterate over rows
for i in range(1, n + 1):
                                                             # for i in range(1,n+1):
     # Inner loop to iterate over columns
     for j in range(1, n + 1):
                                                                           #for j in range(1,n+1):
          if j == i or j == n - i + 1:
    print("*", end="")
                                                                                  #if j == i or j == n - i + 1:
          else:
              print(" ", end="")
     print()
           \begin{array}{lll} \text{in } \mathsf{range}(1,\mathsf{n+1})\colon & \text{\# for i in } \mathsf{range}(1,\mathsf{6}) \\ \text{\# for j in } \mathsf{range}(1,\mathsf{n+1})\colon & \text{\# for j in } \mathsf{range}(1,\mathsf{6}) \end{array}
 # for i in range(1,n+1):
                   #if j == i or j == n - i + 1:
 #
    output:
      Enter the value of n: 5
        *
n = int(input("Enter the value of n: "))
                                                                   # n = 5
# Outer loop to iterate over rows
for i in range(n):
                                                     # for i in range(1,n+1):
     # Inner loop to iterate over columns
     for j in range(n):
                                                                  #for j in range(1,n+1):
         if j == i or j == n - i + 1:
                                                                                  #if j == i or j == n - i + 1:
             print("*", end="")
          else:
              print(" ", end="")
     print()
```

#### Problem

Best way to solve any pattern problem

```
#j=1 2 3 4 5 6 7 8 9

# _ _ _ _ $ _ _ _ _ _ i = 1

# _ _ _ $ $ $ $ _ _ _ _ i = 2

# _ _ $ _ $ _ $ _ $ _ _ i = 3

# _ $ $ $ $ $ $ $ $ $ $ $ i = 5

# _ $ _ $ _ $ _ $ _ _ $ _ i = 8

# _ _ $ _ $ $ _ $ _ _ $ _ i = 8

# _ _ $ _ $ $ $ $ $ $ $ $ _ _ _ i = 9
```

```
n = input("Enter number of rows:") # n = 7
n = int(n)
left_line=int(n/2)
                          # left_line = 3
right_line=int(n/2)
                         # right_line = 3
middle_line=int(n/2)
                         # middle_line = 3
for i in range(n):
                                                  # for i in range(7): i = 1 2 3 4 5 6
  for j in range(n):
                                                        # for j in range(7) # j = 0.1.2.3.4.5.6
    if i == middle_line:
                                                                         # if i == middle_line
     print("$", end =" ")
    elif j == left_line or j == right_line or j == middle_line:
                                                                         # elif j == left_line or j == right_line or j == middle_line
     print("$", end =" ")
    else:
     print("_", end =" ")
  print("\n")
  #updating the lines
  if i == middle_line:
                                                                       # if i == middle_line
                                                                                # left_line = n-1
   left_line = n-1
   right_line = 0
                                                                                 # right_line = 0
  left_line=left_line - 1
                                                                       # left_line = left_line - 1
  right_line=right_line + 1
                                                                       # right_line = right_line + 1
# output:
#
     Enter number of rows:7
     _ _ _ $ _ _ _
     _ _ $ $ $ _ _
     _ $ _ $ _ $ _
    $ $ $ $ $ $ $
     _ $ _ $ _ $ _
     _ _ $ $ $ _ _
     _ _ $ _ _ _
n = int(input("Enter the value of n: "))
for i in range(1,n+1):
 for j in range(1,n+1):
   if j == (n//2)+1 or i == (n//2)+1:
     print('$ ',end='')
    elif i < n//2+1 and (j == (n//2)-i+2 or j == n//2+i):
     print('$ ',end='')
    elif i > n//2+1 and (j == i - (n//2) \text{ or } j == n//2+1):
     print('$ ',end='')
    else:
     print('_ ',end='')
  print()
     Enter the value of n: 9
    ___ $ _ _ _ _
__ _ $ $ $ _ _ _ _
     _ _ $ _ $ _ $ _ _
```

```
- $ - - $ - - $ -
$ $ $ $ $ $ $ $ $ $
     _ _ _ $ _ _ _ _
n = 9
x = int(9/2)-1
y = int(9/2)
for i in range(n):
  for j in range(n):
    if i == y or j == y:
     print('$ ',end='')
    elif i+1<y and j<y:
      print('_ '*(j-1),end='')
print('$ ',end='')
    else:
      print('_ ',end='')
  print()
     _ _ _ $ _ _ _ _
     _ _ _ $ _ _ _ _
     ____$___
n = 5
for i in range(n):
  for j in range(i+1):
      print('_ '*(n-i),end='')
print('$ ',end='')
  print()
     _____$
_____$ ____$
____$ ___$ ____$
___$ ___$ ___$ ___$
n = 9
for i in range(n):
 for j in range(n):
    print('_ ' * (n//2 - j), end='')
print('$ '*1, end='')
    print('_ ' * (n//2-j))
n = 5
for i in range(n):
    print('_ ' * (n - i - 1), end='')
print('$ ', end='')
print('_ ' * i)
     ---$--
--$--
```

```
n = int(input("Enter the value of n: "))
k = int(n/2)
for i in range(1,n+1):
  for j in range(1,n+1):
   if ((int(n/2)+1) = i \text{ and } j \text{ in } range(1,n+1)) or ((int(n/2)+1) = j \text{ and } i \text{ in } range(1,n+1)) or ((j = int(n/2) \text{ or } j = int(n/2)+1) and i = int(n/2)
     print("* ",end='')
    else:
     print(' ',end='')
  print()
    Enter the value of n: 9
     * * * * * * * *
          * *
n = int(input("Enter the value of n: "))
for i in range(n):
    for j in range(2 * n - 1):
       if j == n - i - 1 or j == n + i - 1:
          print("$", end=' ')
       elif j > n - i - 1 and j < n + i - 1:
          print("$", end=' ')
       else:
          print("_", end=' ')
    print()
    Enter the value of n: 9
    ____$ ____$
    $ $ $ $ $
    _____$$$$$__
    $ $ $ $ $ $ $ $ $ $ $ $ $ $ $ $ $ $
n = int(input("Enter the value of n: "))
for i in range(1,n+1):
  for j in range(1,n+1):
   if j == (n//2)+1 or i == (n//2)+1:
     print('$ ',end='')
    elif i < n//2+1 and (j == (n//2)-i+2 \text{ or } j == n//2+i):
     print('$ ',end='')
    elif i > n//2+1 and (j == i - (n//2) \text{ or } j == (3*n//2+1)-i):
     print('$ ',end='')
    else:
     print(' ',end='')
  print()
    Enter the value of n: 9
           $
          $ $ $
        $ $ $
$ $ $
    $ $ $ $ $ $ $ $ $
      $
          $
                 $
          $
        $
               $
          $ $ $
            $
n = int(input("Enter the value of n: "))
for i in range(1,n+1):
 for j in range(1,n+1):
   if i > n//2+1 and j == (3*n//2+1)-i:
     print(j)
```

```
Enter the value of n: 9
    8
    7
    6
     5
                       # (27//2+1 - 6) = 14-6 = 8
print((3*n//2+1)-6)
     8
#j=1 2 3 4 5 6 7 8 9
  _ _ _ $ _ _ _ _
                          i = 1
  i = 2
                         i = 3
                         i = 4
# $ $ $ $ $ $ $ $
                          i = 5
  i = 7
  _ _ _ $ $ $ _ _ _
                          i = 8
x = int(input("Enter the value of x: "))
n = int(x//2+1)
for i in range(n-1):
 for j in range(i,n-1):
   print('_',end='')
 for j in range(i):
   if j == 0 or i == n-1:
     print('*',end='')
   else:
     print('_',end='')
  for j in range(i+1):
   if i==n or j==i or j==0:
     print('*',end='')
   else:
     print('_',end='')
  for j in range(i,n-1):
   print('_',end='')
  print()
for i in range(n):
  for j in range(i):
   print('_',end='')
  for j in range(i,n-1):
   if i == j or i == 0:
     print('*',end='')
   else:
     print('_',end='')
  for j in range(i,n):
   if i==0 or i == j :
     print('*',end='')
  for j in range(i):
   print('_',end='')
  print()
     Enter the value of x: 9
    ***
* * *
* * *
*******
```

```
n=int(input("Enter the terms:"))
x=int((n-1)/2)
for i in range(n):
    if i==x:
        for j in range(n):
            print("$",end="")
    elif i<x:
        for j in range(n):
            if j==x-i or j==x+i or j==x:
                print("$",end="")
                print("_",end="")
    else:
        for j in range(n):
            k=(n-1)-i
            if j==x-k or j==x+k or j==x:
               print("$",end="")
            else:
                print("_",end="")
    print()
     Enter the terms:9
       _$$$___
     __$_$_$_
_$__$__$_
     $$$$$$$$$
     _$__$__$_
     __$_$_$_
     ___$$$___
```

18: WAP that will print a pattern based on the input odd integer n. Please see the sample input output.

```
n = int(input("Enter the value of n: "))
for i in range(n):
 for j in range(n):
   if (i in range(n) and (j==0 or j == n-1)) or (i == n//2 and j in range(n)):
     print('H ',end='')
     print(' ',end='')
  print()
     Enter the value of n: 7
                Н
    Н
                Н
     H H H H H H H
                Н
     н
     Н
                Н
```

### Extra1:

#### Extra

```
a = 7
b = 7
c = 7
for i in range(1,a+1):
      for j in range(1,b+1):
              if (i = 3 or j = 3 or i = c-2 or j = c-2) or (i = 1 or i = 3 or i = 2 or i = c or i = c-1) and (j = 1 or j = 3 or j = 2 or j = 3 or j = 3
                     print('* ',end='')
               else:
                                                            ',end='')
                      print('
        print('\n')
                    * * *
क = 0
খ = 0
গ = 7
print("\n")
for \overline{\Phi} in range(1, \mathfrak{I}+1):
               for \forall in range(1, \Re+1):
                               if 주 == 3 or 킥 == 3 or 주 == গ-2 or 킥 == গ-2 or (주 == 1 or 주 == 3 or 주 == 2 or 주 == গ or 주 == গ-1) and (킥 == 1 or 킥 == 3 or 킥
                                             print("* ", end="")
                               else:
                                                                                         ", end="")
                                             print("
               print("\n")
```

# Writing my name

LLLL

```
for i in range(5):
  for j in range(5):
    if j == 0 or i == 4:
      print('L ',end='')
  print()
      L
      L
      L
      L
      LLLLL
AAAA
for i in range(4):
  for j in range(7):
     if (i == 0 and j == 3) or (i == 1 and (j == 2 or j == 4)) or (i == 2 and (j == 1 or j == 2 or j == 3 or j == 4 or j == 5)) or (i == 3 a
       print('A',end=' ')
       print(' ',end=' ')
  print()
             Α
          A A
        \mathsf{A} \; \mathsf{A} \; \mathsf{A} \; \mathsf{A} \; \mathsf{A}
for i in range(4):
     for j in range(7):
          if (i == 0 \text{ and } j == 3) \text{ or } (i == 1 \text{ and } (j == 2 \text{ or } j == 4)) \text{ or } (i == 2 \text{ and } (j == 1 \text{ or } j == 2 \text{ or } j == 3 \text{ or } j == 4 \text{ or } j == 5)) \text{ or } (i == 2 \text{ and } (j == 2 \text{ or } j == 3 \text{ or } j == 4 \text{ or } j == 5))
              print('A ',end=' ')
               print('_ ',end=' ')
     print()
     _ _ A A A A A _
      A
for i in range(4):
     for j in range(7):
          if (i == 0 and j == 3) or (i == 1 and j in (2, 4)) or (i == 2 and j in (1, 2, 3, 4, 5)) or (i == 3 and j in (0, 6)):
              print('A', end=' ')
          else:
              print('_', end=' ')
     print()
     BBBB
for i in range(5):
  for j in range(4):
    if (i = 0 \text{ and } (j = 0 \text{ or } j = 1 \text{ or } j = 2)) or (i = 1 \text{ and } (j = 0 \text{ or } j = 3)) or (i = 2 \text{ and } (j = 0 \text{ or } j = 2)) or (i = 3 \text{ and } (j = 0 \text{ or } j = 2))
       print('B',end=' ')
     else:
       print(' ',end=' ')
  print()
      В В В
      В
             В
      В В
      ввв
```

```
Н
HHHH
for i in range(5):
  for j in range(5):
    if (i == 0 and (j == 0 or j == 4)) or (i == 1 and (j == 0 or j == 4)) or (i == 2 and (j == 0 or j == 1 or j == 2 or j == 3 or j == 4))
      print('H',end=' ')
    else:
      print(' ',end=' ')
  print()
     Н
             Н
     Н
             Н
     ннннн
     Н
             Н
     Н
             Н
iii
for i in range(5):
  for j in range(5):
    if (i == 0 and (j == 0 or j == 1 or j == 2 or j == 3 or j == 4)) or (i == 1 and (j == 2)) or (i == 2 and (j == 2)) or (i == 3 and (j == 3)) or (i == 3) or (j == 4)
      print('I',end=' ')
    else:
     print(' ',end=' ')
  print()
     IIIII
         Ι
         Т
         Ι
     IIIII
for i in range(5):
  for j in range(5):
    if j == 0 or i == 4:
     print('L ',end='')
 print()
print()
print()
for i in range(4):
  for j in range(7):
    if (i == 0 and j == 3) or (i == 1 and (j == 2 or j == 4)) or (i == 2 and (j == 1 or j == 2 or j == 3 or j == 4 or j == 5)) or (i == 3 ar j == 4 or j == 5))
      print('A',end=' ')
    else:
      print(' ',end=' ')
 print()
print()
print()
for i in range(5):
  for j in range(4):
    if (i == 0 and (j == 0 or j == 1 or j == 2)) or (i == 1 and (j == 0 or j == 3)) or (i == 2 and (j == 0 or j == 2)) or (i == 3 and (j == 0 or j == 2))
      print('B',end=' ')
    else:
      print(' ',end=' ')
  print()
print()
print()
for i in range(5):
  for j in range(5):
    if (i == 0 and (j == 0 or j == 1 or j == 2 or j == 3 or j == 4)) or (i == 1 and (j == 2)) or (i == 2 and (j == 2)) or (i == 3 and (j == 3)) or (i == 3) or (j == 4)
      print('I',end=' ')
    else:
```