

1806554 Ganesh Bhandarkar Python Test

Q1

In [50]:

```
for i in range(0,5):    # b    # Extra Que not to be evaluate
    for k in range(5-i,0,-1):
        print(" ",end="")
    for j in range(i,0,-1):
        print(chr(64+j),end="")
    print()
```

A
BA
CBA
DCBA

Q2

In [14]:

```
def fibo(n):
    if n==0 or n==1:
        return n
    return fibo(n-1)+fibo(n-2)
x = int(input())
fibo(x)
```

Out[14]: 8

Q3

In [54]:

```
l = list(map(int,input().split(' ')))
m = list(map(int,input().split(' ')))
ans = []
for i in range(len(l)):
    ans.append(tuple([l[i],m[i]]))
ans
```

Out[54]: [(1, 1), (2, 2), (3, 3), (4, 4), (5, 5)]

Q4

In [58]:

```
M = [
    [0, 0, 1, 1, 0],
    [1, 0, 0, 1, 1],
    [0, 0, 0, 0, 0],
    [1, 1, 0, 0, 1],
    [1, 0, 0, 1, 1]
]

def floodFill(r, c, M):
    if (r<0 or c<0 or r>len(M)-1 or c>len(M[0])-1 or M[r]
[c]==0):
        return
    M[r][c] = 0
    floodFill(r + 1, c, M)
    floodFill(r - 1, c, M)
    floodFill(r, c + 1, M)
    floodFill(r, c - 1, M)

def res(M):
    if not M:
        return 0
    ans = 0
    for r in range(len(M)):
        for c in range(len(M[0])):
            if M[r][c] == 1:
                ans += 1
                floodFill(r, c, M)
#     for row in range(len(M)):
#         for col in range(len(M[0])):
#             print(M[row][col],end="")
#         print()
```

```
    return ans  
print(res(M))
```

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In []: