```
# -*- coding: utf-8 -*-
"""
Created on Sat Apr 11 10:36:00 2020

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"""
pascal = [[0]*1001 for i in range(1001)]
pascal[0][0] = 1
for i in range(1, 1001):
    for j in range(1, 1001):
        pascal[i][j] =   pascal[i-1][j] + pascal[i-1][j-1]

def dfs(n, path):
    (x, y) = path[-1]
    cand = []
    if pascal[x][y] == n : return True
    n -= pascal[x][y]
    for (dx, dy) in [(1,1),(0, 1),(-1,0),(1,0),(-1,0)]:
        nx, ny = x + dx, y + dy
        if (nx, ny) not in path and nx >= ny and nx > 0 and ny > 0 and pascal[nx][ny]
<= n:
            cand.append((pascal[nx][ny],nx,ny))
    cand = sorted(cand, reverse = True)
    for val, i, j in cand:
        path.append((i,j))
        if dfs(n, path): return True
        path.pop()
T = int(input())
for case in range(T):
    n = int(input())
    path = [(1,1)]
    dfs(n, path)
    print ('Case #{}:'.format(case+1))
    for p in path:
        print (str(p[0]) + ' ' + str(p[1]))
```

這是 google codejam RoundA(需要先過 Qualification Round)的第二題，也是我第

一次參加 codejam

最後拿到綜合排名 2500 名。內容是要解決在帕斯卡三角形中尋找一條不重複的路徑使得和為 n。

我覺得自己在有限時間能夠打出感覺很優美的 code，並且過最難的測資(N <= 10**9)

，覺得很有成就感。