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1、
def solution(n):
              if(n < 1):
                             return 0
               if(n == 1):
                             return 1
               if(n == 2):
                             return 2
               if(n == 5):
                             return 9
               if(n == 10):
                             return 129
               return solution(n-1) + solution(n-2) + solution(n-5) + solution(n-10)
n = int(input())
print(solution(n))
2、
import numpy as np
dx = [0,0,1,-1]
dy = [1,-1,0,0]
def dfs(x,y,m,n,result,flag,maze):
               flag[x][y] = 1
               if(maze[x][y] == 'T'):
                             return True
               for i in range(4):
                             nx = x+dx[i]
                             ny = y + dy[i]
                             if nx>0 and ny>0 and nx<m and ny<n and ny<n and ny<n and ny>0 are ny>0 and ny>0 
or maze[nx][ny] == 'T':
                                            result.append([x,y])
                                            return dfs(nx,ny,m,n,result,flag,maze)
                                            flag[nx][ny] = 0
               return False
if __name__ == "__main__":
              m = 3
               n = 3
               maze = [['0', '0', '0'],['*', '*', '0'], ['*', '0', '0']]
               maze[m-1][n-1] = 'T'
               flag = np.zeros((m,n))
               result = []
               dfs(0,0,m,n,result,flag,maze)
               print(result)
3、
```