## 1. 题目

```
sy119: 汉诺塔
```

```
recursion, https://sunnywhy.com/sfbj/4/3/119
代码:
def moveHanoi(n, from_rod, to_rod, mid_rod):
    if n == 0:
        return
    moveHanoi(n - 1, from_rod, mid_rod, to_rod)
    print(f"{from_rod}->{to_rod}")
    moveHanoi(n - 1, mid_rod, to_rod, from_rod)
    n = int(input())
    print(2**n - 1)
    moveHanoi(n, 'A', 'C', 'B')
    代码运行截图 (至少包含有"Accepted")
```

完美通过

100% 数据通过测试 运行时长: 0 ms

# sy132: 全排列 I

```
recursion, https://sunnywhy.com/sfbj/4/3/132
代码:

def dfs(idx, n, used, temp, result):

    if idx == n + 1:

        result.append(temp[:])

        return

for i in range(1, n + 1):

        if not used[i]:

            temp.append(i)

            used[i] = True

            dfs(idx + 1, n, used, temp, result)

            used[i] = False

            temp.pop()
```

def generate\_permutations(n):

```
result = []
   used = [False] * (n + 1)
   dfs(1, n, used, [], result)
   for perm in result:
      print(" ".join(map(str, perm)))
n = int(input())
generate_permutations(n)
代码运行截图 == (至少包含有"Accepted") ==
试输入
        提交结果
                   历史提交
                                                                                    查看题解
完美通过
100% 数据通过测试
运行时长: 0 ms
02945: 拦截导弹
dp, http://cs101.openjudge.cn/2024fallroutine/02945
代码:
def max_intercepted_missiles(k, heights):
    # Initialize the dp array
    dp = [1] * k
    # Fill the dp array
    for i in range(1, k):
         for j in range(i):
              if heights[i] <= heights[j]:</pre>
                  dp[i] = max(dp[i], dp[j] + 1)
        return max(dp)
if __name__ == "__main__":
    k = int(input())
    heights = list(map(int, input().split()))
    result = max_intercepted_missiles(k, heights)
```

```
print(result)
```

代码运行截图 (至少包含有"Accepted")

```
状态: Accepted
```

## 23421: 小偷背包

```
dp, http://cs101.openjudge.cn/practice/23421
代码:
```

```
N,B = map(int, input().split())*p, = map(int, input().split())*w, = map(int, input().split())
```

```
dp=[0]*(B+1)for i in range(N):
    for j in range(B, w[i] - 1, -1):
        dp[j] = max(dp[j], dp[j-w[i]]+p[i])
        print(dp[-1])
```

代码运行截图 (至少包含有"Accepted")

```
状态: Accepted
```

### 02754: 八皇后

```
dfs and similar, http://cs101.openjudge.cn/practice/02754
代码:
```

```
\label{eq:list1} \begin{split} &\text{list1} = [] \\ &\text{def queen(s):} \\ &\text{if len(s)} == 8: \\ &\text{list1.append(s)} \\ &\text{return} \\ &\text{for i in range(1, 9):} \\ &\text{if all(str(i) != s[j] and abs(len(s) - j) != abs(i - int(s[j])) for j in range(len(s))):} \\ &\text{queen(s + str(i))} \\ &\text{queen(")samples = int(input())for k in range(samples):} \\ &\text{print(list1[int(input()) - 1])} \end{split}
```

代码运行截图 (至少包含有"Accepted")

#### 状态: Accepted

```
    源代码
    #: 46976231

    list1 = []
    题目: 02754

    def queen(s):
    块交人: misty

    if len(s) == 8:
    内存: 3632kB

    list1.append(s)
    时间: 54ms

    return
    语言: Python3

    for i in range(1, 9):
    提交时间: 2024-11-05 20:18:42
```

### 189A. Cut Ribbon

brute force, dp 1300 https://codeforces.com/problemset/problem/189/A 代码:

代码运行截图 (至少包含有"Accepted")



### 2. 学习总结和收获

- 1. 期中考完再学 DP
- 2. 往期每日练习还有一部分没有做
- 3. 看老师上课时的讲义,再结合网上搜索的资料和 ai 基本可以完成自学,但是对于零基础 开始的我来说时间紧是比较大的问题。