

[02945: 拦截导弹](#)

```
def cs02945(n):  
    a = tuple(map(int, input().split()))  
    d = [1] * n  
    for i in range(n):  
        for j in range(i):  
            if a[j] >= a[i]:  
                d[i] = max(d[i], d[j] + 1)  
    print(max(d))
```

#44095622提交状态

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状态: **Accepted**

源代码

```
def cs02945(n):  
    a = tuple(map(int, input().split()))  
    d = [1] * n  
    for i in range(n):  
        for j in range(i):  
            if a[j] >= a[i]:  
                d[i] = max(d[i], d[j] + 1)  
    print(max(d))  
  
cs02945(int(input()))
```

基本信息

#: 44095622
题目: 02945
提交人: 22n2200011358
内存: 3556kB
时间: 21ms
语言: Python3
提交时间: 2024-03-06 19:43:12

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[04147: 汉诺塔问题\(Tower of Hanoi\)](#)

```
def cs04147(lt):
```

```
    n = int(lt[0])
```

```
if n > 0:
```

```
cs04147((n - 1, lt[1], lt[3], lt[2]))
```

```
print(str(n) + ":" + lt[1] + "->" + lt[3])
```

```
cs04147((n - 1, lt[2], lt[1], lt[3]))
```

#44097119提交状态

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状态: Accepted

源代码

```
def cs04147(lt):
    n = int(lt[0])
    if n > 0:
        cs04147((n - 1, lt[1], lt[3], lt[2]))
        print(str(n) + ":" + lt[1] + "->" + lt[3])
        cs04147((n - 1, lt[2], lt[1], lt[3]))

cs04147(tuple(input().split()))
```

基本信息

#: 44097119
题目: 04147
提交人: 22n2200011358
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语言: Python3
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[03253: 约瑟夫问题 No.2](#)

```
def cs03253():
```

```
while True:
```

```
n, p, m = map(int, input().split())
```

```
if (n, p, m) == (0, 0, 0):
```

```
    break
```

```
ans = ""
```

```
lt = [str(i + 1) for i in range(n)]
```

```
for i in range(n, 0, -1):
```

```
    ans += "," + lt.pop((p + m - 2) % i)
```

```
    p = (p + m - 2) % i + 1
```

```
print(ans[1:])
```

#44098819提交状态

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状态: Accepted

源代码

```
def cs03253():
    while True:
        n, p, m = map(int, input().split())
        if (n, p, m) == (0, 0, 0):
            break
        ans = ""
        lt = [str(i + 1) for i in range(n)]
        for i in range(n, 0, -1):
            ans += "," + lt.pop((p + m - 2) % i)
            p = (p + m - 2) % i + 1
        print(ans[1:])
```

cs03253()

基本信息

#: 44098819
题目: 03253
提交人: 22n2200011358
内存: 3612kB
时间: 25ms
语言: Python3
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[21554: 排队做实验 \(greedy\)v0.2](#)

```
def cs21554(n):
```

```
    a = list(map(int, input().split()))
```

```
    b = [i + 1 for i in range(n)]
```

```
    def id(ni):
```

```
        return a[ni - 1]
```

```
    b.sort(key=id)
```

```
    s = 0
```

```
    for i in range(n - 1):
```

```
        s += a[b[i] - 1] * (n - i - 1)
```

```
    print(b[i], end=" ")
```

```
print(b[n - 1])
```

```
print(format(s / n, ".2f"))
```

#44099376提交状态

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状态: **Accepted**

源代码

```
def cs21554(n):
    a = list(map(int, input().split()))
    b = [i + 1 for i in range(n)]

    def id(ni):
        return a[ni - 1]

    b.sort(key=id)
    s = 0
    for i in range(n-1):
        s += a[b[i] - 1] * (n - i - 1)
        print(b[i], end=" ")
    print(b[n-1])
    print(format(s / n, ".2f"))

cs21554(int(input()))
```

基本信息

#: 44099376
题目: 21554
提交人: 22n2200011358
内存: 3636kB
时间: 21ms
语言: Python3
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[19963: 买学区房](#)

```
def cs19963(n):
```

```
    a1, a2 = [i for i in range(n)], [i for i in range(n)]
```

```
    b = tuple(tuple(map(int, i[1:-1].split(","))) for i in
```

```
input().split())
```

```
    c = tuple(map(int, input().split()))
```

```
def bi(ni):
```

```
    return (int(b[ni][0]) + int(b[ni][1])) / c[ni]
```

```
def ci(ni):
```

```
return c[ni]
```

```
a1.sort(key=bi, reverse=True)
```

```
b1 = [bi(i) for i in a1]
```

```
a2.sort(key=ci)
```

```
b2 = [ci(i) for i in a2]
```

```
print(len(set(a1[:b1.index(b1[n // 2]]).intersection(set(a2[:b2.index(b2[n // 2]))])))
```

#44099849提交状态

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状态: Accepted

源代码

```
def cs19963(n):
    a1, a2 = [i for i in range(n)], [i for i in range(n)]
    b = tuple(tuple(map(int, i[1:-1].split(","))) for i in input().split())
    c = tuple(map(int, input().split()))

    def bi(ni):
        return (int(b[ni][0]) + int(b[ni][1])) / c[ni]

    def ci(ni):
        return c[ni]

    a1.sort(key=bi, reverse=True)
    b1 = [bi(i) for i in a1]
    a2.sort(key=ci)
    b2 = [ci(i) for i in a2]

    print(len(set(a1[:b1.index(b1[n // 2]))).intersection(set(a2[:b2.index(b2[n // 2]))])))

cs19963(int(input()))
```

基本信息

#: 44099849
题目: 19963
提交人: 22n2200011358
内存: 5044kB
时间: 26ms
语言: Python3
提交时间: 2024-03-07 00:56:47

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[27300: 模型整理](#)

```
def cs27300(n):
```

```
    k = []
```

```
    dct = {}
```

```
for i in range(n):
    a, b = input().split("-")
    if a in k:
        pass
    else:
        dct[a] = []
        k.append(a)
        dct[a].append(b)
k.sort()

def s(sc):
    if sc[-1] == "B":
        return float(sc[:-1]) * 1000
    else:
        return float(sc[:-1])

for i in k:
    dct[i].sort(key=s)
    print(i, end=": ")
    for j in dct[i][:-1]:
        print(j, end=", ")
    print(dct[i][-1])
```

cs27300(int(input()))

#44099882提交状态

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状态: **Accepted**

源代码

```
def cs27300(n):
    k = []
    dct = {}
    for i in range(n):
        a, b = input().split("-")
        if a in k:
            pass
        else:
            dct[a] = []
            k.append(a)
            dct[a].append(b)
    k.sort()

    def s(sc):
        if sc[-1] == "B":
            return float(sc[:-1]) * 1000
        else:
            return float(sc[:-1])

    for i in k:
        dct[i].sort(key=s)
        print(i, end=" ")
        for j in dct[i][:-1]:
            print(j, end=" ")
        print(dct[i][-1])

cs27300(int(input()))
```

基本信息

#: 44099882
题目: 27300
提交人: 22n2200011358
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时间: 23ms
语言: Python3
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总结：本次月考因课程冲突未能参加，后面自己限时内能 AC4，题目分级一如既往地有迷惑性，最后两题反而很简单。本次复习了 DP，递归等算法，在汉诺塔题上因指标不清耗时过多