

## 1. 题目

E07618: 病人排队

sortings, <http://cs101.openjudge.cn/practice/07618/>

思路:分年轻人和老年人两个列表

代码:

```
n = int(input())
```

```
elderly = []
```

```
non_elderly = []
```

```
for _ in range(n):
```

```
    patient_id, age = input().split()
```

```
    age = int(age)
```

```
    if age >= 60:
```

```
        elderly.append((patient_id, age))
```

```
    else:
```

```
        non_elderly.append((patient_id, age))
```

```
elderly.sort(key=lambda x: -x[1])
```

```
sorted_patients = elderly + non_elderly
```

```
for patient in sorted_patients:
```

```
    print(patient[0])
```

代码运行截图（至少包含有"Accepted"）

状态: **Accepted**

源代码

```
n = int(input())

elderly = []
non_elderly = []

for _ in range(n):
    patient_id, age = input().split()
    age = int(age)
    if age >= 60:
```

基本信息

#: 47121684

题目: 07618

提交人: misty

内存: 3640kB

时间: 26ms

语言: Python3

提交时间: 2024-11-12 20:48:57

E23555: 节省存储的矩阵乘法

implementation, matrices, <http://cs101.openjudge.cn/practice/23555/>

代码:

```
n, m1, m2 = map(int, input().split())
a = [[0] * n for _ in range(n)]
b = [[0] * n for _ in range(n)]
for _ in range(m1):
```

```
    x, y, v = map(int, input().split())
```

```

a[x][y] = v
for _ in range(m2):
    x, y, v = map(int, input().split())
    b[x][y] = vc = [[0] * n for _ in range(n)]
    for i in range(n):
        for j in range(n):
            c[i][j] = sum(a[i][k] * b[k][j] for k in range(n))
            if c[i][j] != 0:
                print(i, j, c[i][j])

```

代码运行截图 ==（至少包含有"Accepted"）==

状态: **Accepted**

源代码

```

n, m1, m2 = map(int, input().split())
a = [[0] * n for _ in range(m1)]
b = [[0] * n for _ in range(m2)]
for _ in range(m1):
    x, y, v = map(int, input().split())
    a[x][y] = v
for _ in range(m2):

```

基本信息

#: 47121773  
 题目: 23555  
 提交人: misty  
 内存: 3760kB  
 时间: 29ms  
 语言: Python3  
 提交时间: 2024-11-12 20:51:49

M18182: 打怪兽

implementation/sortings/data structures, <http://cs101.openjudge.cn/practice/18182/>

代码:

```

for _ in range(int(input())):
    n, m, b = map(int, input().split(' '))
    d = {}
    for i in range(n):
        t, x = map(int, input().split(' '))
        if t not in d.keys():
            d[t] = [x]
        else:
            d[t].append(x)
    for i in d.keys():
        d[i].sort(reverse=True)
        d[i] = sum(d[i][:m])
    dp = sorted(d.items())
    for i in dp:
        b -= i[1]
        if b <= 0:
            print(i[0])
            break
    else:
        print('alive')

```

代码运行截图（至少包含有"Accepted"）

状态: Accepted

源代码

```
for _ in range(int(input())):
    n,m,b = map(int, input().split(' '))
    d = {}
    for i in range(n):
        t,x=map(int, input().split(' '))
        if t not in d.keys():
            d[t] = [x]
        else:
            d[t].append(x)
    for i in d.keys():
```

基本信息

#: 47121815  
题目: 18182  
提交人: misty  
内存: 3936kB  
时间: 85ms  
语言: Python3  
提交时间: 2024-11-12 20:52:57

M28780: 零钱兑换 3

dp, <http://cs101.openjudge.cn/practice/28780/>

代码:

```
n, m = map(int, input().split())coins = list(map(int, input().split()))dp = [float("inf")] * (m + 1)dp[0]
= 1for i in coins:
    dp[i] = 1for i in range(1, m + 1):
    for coin in coins:
        if i - coin >= 0:
            dp[i] = min(dp[i], dp[i - coin] + 1)
#print(dp)if dp[m] == float("inf"):
    print(-1)else:
    print(dp[m])
```

代码运行截图（至少包含有"Accepted"）

状态: Accepted

源代码

```
from math import inf
n, m = map(int, input().split())
coins = list(map(int, input().split()))
dp = [0] + [inf for _ in range(m)]
for i in range(n):
    for j in range(coins[i], m + 1):
        dp[j] = min(dp[j], dp[j - coins[i]] + 1)
```

基本信息

#: 47122070  
题目: 28780  
提交人: misty  
内存: 28696kB  
时间: 1522ms  
语言: Python3  
提交时间: 2024-11-12 21:01:10

T12757: 阿尔法星人翻译官

implementation, <http://cs101.openjudge.cn/practice/12757>

代码:

```
tokens = [str(i) for i in input().split()]dic={"zero":0, "one":1, "two":2, "three":3, "four":4, "five":5,
"six":6,
    "seven":7, "eight":8, "nine":9, "ten":10, "eleven":11, "twelve":12,
    "thirteen":13, "fourteen":14, "fifteen":15, "sixteen":16, "seventeen":17,
    "eighteen":18, "nineteen":19, "twenty":20, "thirty":30, "forty":40,
    "fifty":50, "sixty":60, "seventy":70, "eighty":80, "ninety":90,
    "hundred":100, "thousand":1000, "million":1000000}
sign = 1if tokens[0]=="negative":
    sign = -1
    del tokens[0]
total = 0tmp = 0for i in tokens:
```

```

if i in ("thousand", "million"):
    total += tmp*dic[i]
    tmp = 0
    continue
if i == "hundred":
    tmp *= dic[i]
else:
    tmp += dic[i]
print( sign * (total + tmp) )

```

代码运行截图（至少包含有"Accepted"）

状态: **Accepted**

源代码

```

tokens = [str(i) for i in input().split()]
dic={"zero":0, "one":1, "two":2, "three":3, "four":4, "five":5, "six":6,
    "seven":7, "eight":8, "nine":9, "ten":10, "eleven":11, "twelve":12,
    "thirteen":13, "fourteen":14, "fifteen":15, "sixteen":16, "seventeen":17,
    "eighteen":18, "nineteen":19, "twenty":20, "thirty":30, "forty":40,
    "fifty":50, "sixty":60, "seventy":70, "eighty":80, "ninety":90,

```

基本信息

#: 47122088  
 题目: 12757  
 提交人: misty  
 内存: 3684kB  
 时间: 30ms  
 语言: Python3  
 提交时间: 2024-11-12 21:01:44

T16528: 充实的寒假生活

greedy/dp, cs10117 Final Exam, <http://cs101.openjudge.cn/practice/16528/>

代码:

```

n = int(input())a = []for i in range(n):
    x, y = map(int, input().split())
    a.append((x + 1, y + 1))a = sorted(a, key = lambda _: _[0])dp = [0] * 65for i in range(n):
    for j in range(a[i][1], 62):
        dp[j] = max(dp[j], dp[a[i][0] - 1] + 1)print(dp[61])

```

代码运行截图（至少包含有"Accepted"）

状态: **Accepted**

源代码

```

n = int(input())
a = []
for i in range(n):
    x, y = map(int, input().split())
    a.append((x + 1, y + 1))
a = sorted(a, key = lambda _: _[0])
dp = [0] * 65

```

基本信息

#: 47122206  
 题目: 16528  
 提交人: misty  
 内存: 3832kB  
 时间: 54ms  
 语言: Python3  
 提交时间: 2024-11-12 21:05:51

## 2. 学习总结和收获

(1)期中考完了该学计概了

(2)有同学说他学编程几乎不用 ai, 遇到困难去翻书, 这样虽然解题效率低于 ai, 但是在查阅过程中可能更容易学到相关知识, 可以试一下不那么依赖 ai 的学习方式。