

1. 题目

04148: 生理周期

brute force, <http://cs101.openjudge.cn/practice/04148>

思路:

代码:

```
p,e,i,d=map(int,input().split())
ct=1
while p!=-1:
    i=i%33
    e=e%28
    p=p%23
    for k in range(i,21253+d,33):
        if (k-p)%23==0 and (k-e)%28==0 and k>d:
            day=k-d
            break
    print('Case '+str(ct)+': the next triple peak occurs in '+str(day)+' days.')
    ct+=1
    p,e,i,d=map(int,input().split())
```

代码运行截图（至少包含有"Accepted"）



18211: 军备竞赛

greedy, two pointers, <http://cs101.openjudge.cn/practice/18211>

思路:

代码:

```
p=int(input())
l=list(map(int,input().split()))
```

```

l.sort()
n1=0
n2=0
m=0
while len(l)>0 and p>=l[0]:
    while len(l)>0 and p>=l[0]:
        n1+=1
        p-=l[0]
        l.remove(l[0])
    m=max(m,n1-n2)
    while len(l)>0 and p<l[0] and n1>=n2:
        p+=l[-1]
        n2+=1
        l.remove(l[-1])
print(m)

```

代码运行截图 ==（至少包含有"Accepted"）==



21554: 排队做实验

greedy, <http://cs101.openjudge.cn/practice/21554>

思路:

代码:

```

n=int(input())
l=[]
a=list(map(int,input().split()))
for i in range(n):
    l.append([a[i],i+1])
l.sort(key=lambda x:x[0])

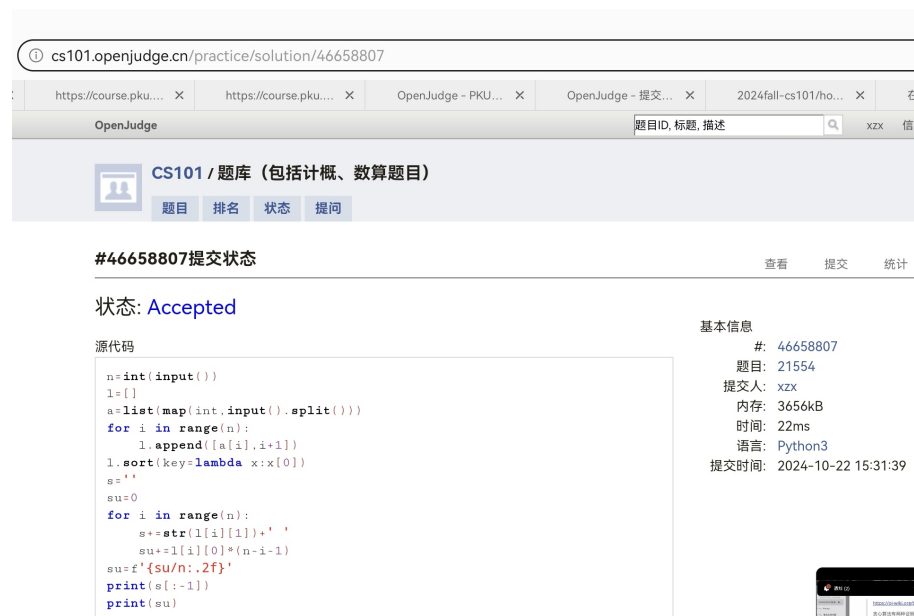
```

```

s=""
su=0
for i in range(n):
    s+=str(l[i][1])+' '
    su+=l[i][0]*(n-i-1)
su=f'{su/n:.2f}'
print(s[:-1])
print(su)

```

代码运行截图 （至少包含有"Accepted"）



The screenshot shows the OpenJudge submission page for problem 46658807. The page title is "CS101 / 题库 (包括计概、数算题目)". The submission status is "Accepted". The source code is as follows:

```

n=int(input())
l=[]
a=list(map(int,input().split()))
for i in range(n):
    l.append([a[i],i+1])
l.sort(key=lambda x:x[0])
s=""
su=0
for i in range(n):
    s+=str(l[i][1])+' '
    su+=l[i][0]*(n-i-1)
su=f'{su/n:.2f}'
print(s[:-1])
print(su)

```

The submission details on the right are:

- #: 46658807
- 题目: 21554
- 提交人: xzx
- 内存: 3656kB
- 时间: 22ms
- 语言: Python3
- 提交时间: 2024-10-22 15:31:39

01008: Maya Calendar

implementation, <http://cs101.openjudge.cn/practice/01008/>

思路:

代码:

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

```

dic={'pop':1,'no':2,'zip':3,'zotz':4,'tzec':5,'xul':6,'yoxkin':7,'mol':8,'chen':9,'yax':10,'zac':11,'c
eh':12,'mac':13,'kankin':14,'muan':15,'pax':16,'koyab':17,'cumhu':18,'uayet':19}
dicday=['imix','ik','akbal','kan','chicchan','cimi','manik','lamat','muluk','ok','chuen','eb','ben',
'ix','mem','cib','caban','eznab','canac','ahau']
print(n)
for i in range(n):
    l=list(input().split())
    day=int(l[0][-1])
    mon=dic[l[1]]
    y=int(l[2])
    d=365*y+(mon-1)*20+day+1

```

```

opy=d//260
d=d%260
if d==0:
    opy-=1
    d=260
num=(d-1)%13+1
nam=dicday[(d-1)%20]
print(num,nam,opy)

```

代码运行截图 （至少包含有"Accepted"）



545C. Woodcutters

dp, greedy, 1500, <https://codeforces.com/problemset/problem/545/C>

思路：

代码：

```

n=int(input())
l=[]
for i in range(n):
    l.append(list(map(int,input().split())))
ct=2
for i in range(1,n-1):
    if l[i][0]-l[i-1][0]>l[i][1]:
        ct+=1
    elif l[i+1][0]-l[i][0]>l[i][1]:
        ct+=1
    l[i][0]+=l[i][1]
if n==1:
    ct=1
print(ct)

```

代码运行截图 （至少包含有"Accepted"）

5:01 ...

< x Status - Codeforces

CODEFORCES
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MAIN | ACMSGURU | PROBLEMS | SUBMIT | STATUS | STANDINGS | CUSTOM TEST

Contest status

#	When	Who	Problem	Lang	Verdict	Time	Memory
287328612	Oct/22/2024 17:00 ^{UTC+4}	xyzxyzx	545C - Woodcutters	Python 3	Accepted	405 ms	19100 KB
287328604	Oct/22/2024 16:59 ^{UTC+4}	xyzxyzx	545C - Woodcutters	Python 3	Wrong answer on test 9	343 ms	18900 KB

01328: Radar Installation

greedy, <http://cs101.openjudge.cn/practice/01328/>

思路:

代码:

```
ct=0
```

```
li=input()
```

```
n,d=map(int,li.split())
```

```
while n!=0:
```

```
    if len(li)>0:
```

```
        n,d=map(int,li.split())
```

```
        ct+=1
```

```
        l=[]
```

```
        p=0
```

```
        if n==0:
```

```
            break
```

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

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

```
            if y>d:
```

```
                p=-1
```

```
            else:
```

```
                mi=x-(d**2-y**2)**0.5
```

```
                ma=x+(d**2-y**2)**0.5
```

```
                l.append([mi,ma])
```

```
        if p!=-1:
```

```
            l.sort(key=lambda x:x[0])
```

```
            p=1
```

```
            tmp=l[0][1]
```

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

```
                if l[i][0]>tmp:
```

```
                    p+=1
```

```
                    tmp=l[i][1]
```

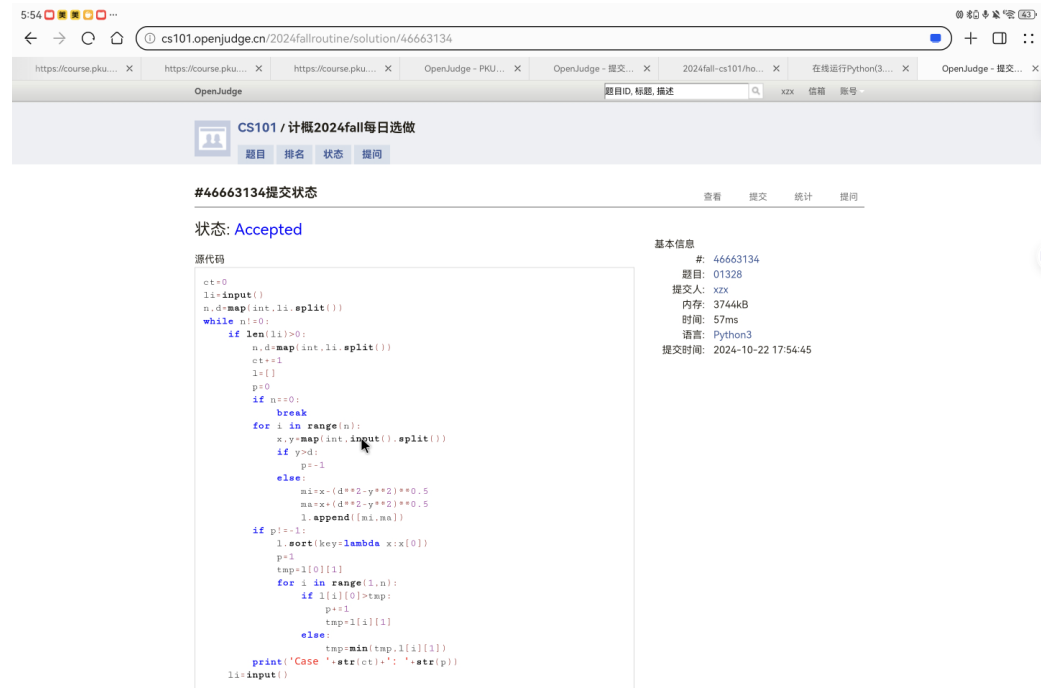
```
            else:
```

```
                tmp=min(tmp,l[i][1])
```

```
print('Case '+str(ct)+': '+str(p))
```

li=input()

代码运行截图（至少包含有"Accepted"）



2. 学习总结和收获

这次作业基本是每日选做，所以做得挺快的，没什么多说的。
上课讲义内容相当丰富，正在仔细研究。

如果作业题目简单，有否额外练习题目，比如：OJ“计概 2024fall 每日选做”、CF、LeetCode、洛谷等网站题目。

日常跟进 OJ 日常选做。