第五次作业

04148: 生理周期

```
题目
                                     结果
                                                   内存
                                                            时间
                                                                   代码长度
                                                                               语言
                                                                                       提交时间
 亚 题库 (包括计概、数
                  04148: 生理周期
                                     Accepted
                                                   3640kB
                                                            34ms
                                                                   361 B
                                                                               Python3 11小时前
算题目)
num = 1
while True:
    p, e, i, d = map(int, input().split())
    if [p, e, i, d] == [-1, -1, -1, -1]:
         break
    final_day=d+1
    while (final_day - p) % 23 != 0 or (final_day - e) % 28 != 0 or (final_day - i) % 33 != 0:
         final day += 1
    final_day-=d
    print(f'Case {num}: the next triple peak occurs in {final_day} days.')
    num += 1
18211: 军备竞赛
                   18211: 军备竞赛
 11 题库 (包括计概、数
                   (greedy, two
                                     Accepted
                                                    3664kB 24ms
                                                                    715 B
                                                                                Python3 11小时前
 算题目)
                   pointers) v0.2
p=int(input())
numbers=list(map(int,input().split()))
numbers.sort()
if numbers[0]>p:
    print('0')
else:
    our_weapons=0
    enemy=0
    n=len(numbers)
    for i in range(len(numbers)):
         if our weapons>=enemy and n>0:
```

if n>1 and numbers[i]<=p: our_weapons+=1 p-=numbers[i]

elif n>1 and numbers[i]>p:

enemy += 1

p+=(numbers[len(numbers)-1-enemy]-numbers[i])

n-=1

```
our_weapons+=1
    n-=2
elif numbers[i]<=p:
    our_weapons+=1
    n-=1
else:
    break
else:
    break
print(our_weapons-enemy)</pre>
```

21554:排队做实验 (greedy)v0.2

比赛	题目	结果	内存	时间	代码长度	语言	提交时间
亚 题库 (包括计概、数 算题目)	7 21554: 排队做实验 (greedy)v0.2	Accepted	3672kB	24ms	476 B	Python3	4分钟前
n=int(input())							
T=list(map(int,input().split()))							
T_sorted=sorted(T)							
indexed_T = [(value, index) for index, value in enumerate(T)]							
sorted_indexed_T = sorted(indexed_T, key=lambda x: (x[0], x[1]))							
new_list=[item[1] for item in sorted_indexed_T]							
for j in range(n):							
new_list[j]+=1							
print(" ".join(map(str,new_list)))							
box=[]							
time=0							
for i in range(n-1):							
time+=T_sorted[i]							
box.append(t	ime)						

01008: Maya Calendar

print('%.2f'%float(sum(box)/n))

```
| Maria | Ma
```

```
year_2={0:'imix',1:'ik',2: 'akbal',3: 'kan',4: 'chicchan',5: 'cimi',6: 'manik',7: 'lamat',8: 'muluk',9:'ok',
         10: 'chuen',11: 'eb',12: 'ben',13: 'ix',14: 'mem',15:'cib',16: 'caban',17: 'eznab',18:
'canac',19: 'ahau'}
n=int(input())
print(n)
for _ in range(n):
    day,month,year=input().split()
    day_2=day.rstrip('.')
    days=(year_1[month])*20+int(day_2)+int(year)*365
    month_2=year_2[days%20]
    holly_year=days//260
    day_3=(days%260)%13+1
    print(day_3,month_2,holly_year)
```

545C. Woodcutters

TI GUDINISSIONS							
#	When	Who	Problem	Lang	Verdict	Time	Memory
288251668	Oct/27/2024 09:16 ^{UTC}	liquoriceliquorice	C - Woodcutters	Python 3	Accepted	405 ms	18600 KB

```
import sys
#Woodcutters can fell a tree if the segment to be occupied by the fallen tree doesn't contain any
occupied point.!!
ranges=[]
n=int(input())
for _ in range(n):
     a,h=map(int,input().split())
     ranges.append((a-h,a,a+h))
ranges.sort(key=lambda x:x[1])
I=-sys.maxsize
num=0
for i in range(len(ranges)):
     left,right=ranges[i][0],ranges[i][2]
     if I<left:
          I=(left+right)/2
          num+=1
     elif left<=l<(left+right)/2:
          I=right
          num+=1
          if i+1<len(ranges):
```

next_left,next_right=ranges[i+1][0],ranges[i+1][2]

if I>=(next_left+next_right)/2:

l=(left+right)/2

num-=1

print(num)

01328: Radar Installation

(这个是看了答案理清了它的思路后自己做的...确实不太会,但是学会了如何处理输入空行)

比赛	题目	结果	内存	时间	代码长度	语言	提交时间
11 题库(包括计概、数	01328: Radar	Accepted	3916kB	46ms	738 B	Python3	
算题目)	Installation						

import math

```
def radar(n,d,islands):
     if d<0:
          return -1
     ranges=[]
     for x,y in islands:
          if y>d:
               return -1
          else:
               delta=math.sqrt(d*d-y*y)
               ranges.append((x-delta,x+delta))
          if not range:
               return -1
     ranges.sort(key=lambda x:x[1])
     numbers=1
     r=ranges[0][1]
     for left,right in ranges[1:]:
          if r<left:
               r=right
               numbers+=1
     return numbers
num=0
while True:
     n,d=map(int,input().split())
     if [n,d]==[0,0]:
          break
     num+=1
     islands=[]
     for _ in range(n):
          islands.append(tuple(map(int,input().split())))
     result=radar(n,d,islands)
     print(f'Case {num}: {result}')
```

input()

学习感悟:感觉本周的 python 作业难了许多,有一些题是先看了答案理解了它的思路之后才自己做的。唉...不过能够自己应用课上讲的区间相关知识还是感觉不错。并且再次意识到数学思维比 python 技巧更重要...最近因为期中相关的事情太多了所以没有怎么做每日选做,不知道什么时候能补上...