

# 计概B作业5

## 04148: 生理周期

思路：枚举33的天数判断能否被23，28的整除

代码：

```
a = 1
while True:
    b = list(map(int,input().split()))
    if b == [-1 for _ in range(4)]:
        break
    c = [b[2]+33*x for x in range((b[3]-b[2])//33+1,(21253+b[3]-b[2])//33+1)]
    for i in range(len(c)):
        if (c[i]-b[0])%23 == 0 and (c[i]-b[1])%28 == 0:
            d = c[i]-b[3]
            print(f'Case {a}: the next triple peak occurs in {d} days.')
            break
    a += 1
```

#46105657提交状态

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状态: **Accepted**

源代码

```
a = 1
while True:
    b = list(map(int,input().split()))
    if b == [-1 for _ in range(4)]:
        break
    c = [b[2]+33*x for x in range((b[3]-b[2])//33+1,(21253+b[3]-b[2])//33+1)]
    for i in range(len(c)):
        if (c[i]-b[0])%23 == 0 and (c[i]-b[1])%28 == 0:
            d = c[i]-b[3]
            print(f'Case {a}: the next triple peak occurs in {d} days.')
            break
    a += 1
```

基本信息

#: 46105657  
题目: 4148  
提交人: 2400011474  
内存: 6128kB  
时间: 25ms  
语言: Python3  
提交时间: 2024-09-18 12:46:42

评价此题

你可能感兴趣的题目

- 2694 波兰表达式
- 2744 子串
- 2950 摘花生

2816 红与黑

2806 公共子序列

## 18211: 军备竞赛

思路：若可以买第一件武器，那么一定有最多一件武器买不到，只要排序完把p放在最左边，看前几项的和刚好小于sum/2，然后判断下一件武器要不要买。

代码：

```

n = int(input())
l = sorted(list(map(int, input().split())))+[n]
if n < l[0]:
    print(0)
else:
    a = 0
    b = sum(l)
    y = False
    for i in range(len(l)):
        if a <= b/2:
            a += l[i]
        else:
            a -= l[i-1]
            for j in range(i-1, len(l)):
                w = b-a
                if b-a-l[j] >= a:
                    b -= l[j]
            else:
                print(i-(len(l)-j))
                y = True
                break
    if y == True:
        break

```

#46447076提交状态

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状态: **Accepted**

源代码

```

n = int(input())
l = sorted(list(map(int, input().split())))+[n]
if n < l[0]:
    print(0)
else:
    a = 0
    b = sum(l)
    y = False
    for i in range(len(l)):
        if a <= b/2:
            a += l[i]
        else:
            a -= l[i-1]
            for j in range(i-1, len(l)):
                w = b-a
                if b-a-l[j] >= a:
                    b -= l[j]
            else:
                print(i-(len(l)-j))
                y = True
                break
    if y == True:
        break

```

基本信息

#: 46447076  
 题目: 18211  
 提交人: 2400011474  
 内存: 3656kB  
 时间: 21ms  
 语言: Python3  
 提交时间: 2024-10-12 19:25:00

## 21554: 排队做实验

思路: sort完直接算

代码:

```
n = int(input())
l = list(map(int,input().split()))
l = [[l[i],i+1] for i in range(len(l))]
l.sort(key=lambda x: (x[0],x[1]))
t = sum((n-1-i)*l[i][0] for i in range(n))/n
print(' '.join([str(x[1]) for x in l]))
print(f'{t:.2f}')
```

#46669951提交状态

查看

提交

统计

提问

状态: Accepted

源代码

```
n = int(input())
l = list(map(int,input().split()))
l = [[l[i],i+1] for i in range(len(l))]
l.sort(key=lambda x: (x[0],x[1]))
t = sum((n-1-i)*l[i][0] for i in range(n))/n
print(' '.join([str(x[1]) for x in l]))
print(f'{t:.2f}')
```

基本信息

#: 46669951

题目: 21554

提交人: 2400011474

内存: 3652kB

时间: 23ms

语言: Python3

提交时间: 2024-10-22 23:10:20

# 01008: Maya Calendar

思路: 计算天数取模

代码:

```
n = int(input())
print(n)
for _ in range(n):
    a,b,c = map(str,input().split())
    a = int(a[:-1])
    c = int(c)
    l =
    ['pop','no','zip','zotz','tzec','xul','yoxkin','mol','chen','yax','zac','ceh','mac','kanki
n','muan','pax','koyab','cumhu','uayet']
    b = l.index(b)
    d = c*365+a+1+20*b
    z = (d-1)//260
    d = d-1-z*260
    x = d%13+1
    ans =
    ['imix','ik','akbal','kan','chicchan','cimi','manik','lamat','muluk','ok','chuen','eb','be
n','ix','mem','cib','caban','eznab','canac','ahau']
    y = ans[d%20]
    print(x,y,z)
```

状态: **Accepted**

源代码

```
n = int(input())
print(n)
for _ in range(n):
    a,b,c = map(str,input().split())
    a = int(a[:-1])
    c = int(c)
    l = ['pop','no','zip','zotz','tzec','xul','yoxkin','mol','chen','ya']
    b = l.index(b)
    d = c*365+a+1+20*b
    z = (d-1)//260
    d = d-1-z*260
    x = d%13+1
    ans = ['imix','ik','akbal','kan','chicchan','cimi','manik','lamat']
    y = ans[d%20]
    print(x,y,z)
```

基本信息

#: 46587189  
题目: 01008  
提交人: 2400011474  
内存: 3824kB  
时间: 34ms  
语言: Python3  
提交时间: 2024-10-19 09:56:36

## 545C. Woodcutters

思路：去边后给出一个左侧的limit，利用dp，往右走，同时更新limit。

代码：

```
n = int(input())
x = []
h = []
for _ in range(n):
    a,b = map(int,input().split())
    x.append(a)
    h.append(b)
if n < 3:
    print(n)
else:
    l = x[0]
    ans = 2
    for i in range(n-2):
        if x[i+1]-l > h[i+1]:
            ans += 1
            l = x[i+1]
        elif x[i+2]-x[i+1] > h[i+1]:
            ans += 1
            l = x[i+1]+h[i+1]
        else:
            l = x[i+1]
    print(ans)
```

General										
#	Author	Problem	Lang	Verdict	Time	Memory	Sent	Judged		
287443096	Practice: weijiali	<a href="#">545C</a> - 14	Python 3	Accepted	296 ms	9108 KB	2024-10-23 03:27:43	2024-10-23 03:27:43	★	<button>Compare</button>

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```

n = int(input())
x = []
h = []
for _ in range(n):
    a,b = map(int,input().split())
    x.append(a)
    h.append(b)
if n < 3:
    print(n)
else:
    l = x[0]
    ans = 2
    for i in range(n-2):
        if x[i+1]-l > h[i+1]:
            ans += 1
            l = x[i+1]
        elif x[i+2]-x[i+1] > h[i+1]:
            ans += 1
            l = x[i+1]+h[i+1]
        else:
            l = x[i+1]
    print(ans)

```

[Click](#) to see test details

## 01328: Radar Installation:

思路：发现离岸太远的直接输出-1，从左向右以右端点排序，把雷达放右端点，找到下一个左端点大于这个点的区间，把雷达放右端点，以此类推。

代码：

```

ans = 1
while True:
    n,d = map(int,input().split())
    if [n,d] == [0,0]:
        break
    l = []
    g = False
    for _ in range(n):
        x,y = map(int,input().split())
        if d < y:
            g = True
        p = x-(d**2-y**2)**(1/2)
        q = x+(d**2-y**2)**(1/2)
        l.append([p,q])
    w = input()
    if g == True:
        print(f'Case {ans}: -1')
        ans += 1
        continue
    l.sort(key=lambda x: x[1])
    s = l[0][0]-1
    d = 0
    for i in range(n):
        if l[i][0] > s:
            d += 1
            s = l[i][1]

```

```
print(f'Case {ans}: {d}')
ans += 1
```

#46560359提交状态

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状态: **Accepted**

源代码

```
ans = 1
while True:
    n,d = map(int,input().split())
    if [n,d] == [0,0]:
        break
    l = []
    g = False
    for _ in range(n):
        x,y = map(int,input().split())
        if d < y:
            g = True
            p = x-(d**2-y**2)**(1/2)
            q = x+(d**2-y**2)**(1/2)
            l.append([p,q])
    w = input()
    if g == True:
        print(f'Case {ans}: -1')
        ans += 1
        continue
    l.sort(key=lambda x: x[1])
    s = l[0][0]-1
    d = 0
    for i in range(n):
        if l[i][0] > s:
            d += 1
            s = l[i][1]
    print(f'Case {ans}: {d}')
    ans += 1
```

基本信息

#: 46560359

题目: 1328

提交人: 2400011474

内存: 3700kB

时间: 52ms

语言: Python3

提交时间: 2024-10-17 21:12:41

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[2952 循环数](#)

[1691 Painting A Board](#)

[1365 Prime Land](#)

[1230 Pass-Muraille](#)

[1503 Integer Inquiry](#)

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