

1. 题目

04148: 生理周期

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

代码:

```
num = 1
while True:
    p, e, i, d = map(int, input().split())
    if [p, e, i, d] == [-1, -1, -1, -1]:
        break

    s = d + 1

    while (s-p)%23!=0 or (s-e)%28!=0 or (s-i)%33!=0:
        s += 1

    s -= d
    print(f'Case {num}: the next triple peak occurs in {s} days.')
    num += 1
```

代码运行截图（至少包含有"Accepted"）

状态: **Accepted**

源代码

```
num = 1
while True:
    p, e, i, d = map(int, input().split())
    if [p, e, i, d] == [-1, -1, -1, -1]:
        break

    s = d + 1

    while (s-p)%23!=0 or (s-e)%28!=0 or (s-i)%33!=0:
        s += 1

    s -= d
    print(f'Case {num}: the next triple peak occurs in {s} days.')
    num += 1
```

基本信息

#: 46821090
题目: 04148
提交人: misty
内存: 3632kB
时间: 35ms
语言: Python3
提交时间: 2024-10-29 20:53:16

18211: 军备竞赛

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

代码:

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

i, j, cnt = 0, len(cost) - 1, 0
```

```

while i < j:
    if cost[i] <= p:
        cnt += 1
        p -= cost[i]
        i += 1
    elif cnt != 0:
        cnt -= 1
        p += cost[j]
        j -= 1
    else:
        break

print(cnt + (cost[i] <= p))

```

代码运行截图 ==（至少包含有"Accepted"）==

状态: **Accepted**

源代码

```

p = int(input())
cost = sorted(list(map(int, input().split())))

i, j, cnt = 0, len(cost) - 1, 0

while i < j:
    if cost[i] <= p:
        cnt += 1
        p -= cost[i]
        i += 1
    elif cnt != 0:
        cnt -= 1
        p += cost[j]
        j -= 1
    else:
        break

print(cnt + (cost[i] <= p))

```

基本信息

#: 46822267
 题目: 18211
 提交人: misty
 内存: 3648kB
 时间: 30ms
 语言: Python3
 提交时间: 2024-10-29 21:32:53

21554: 排队做实验

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

代码:

```

n = int(input())
time = list(map(int, input().split()))
students = sorted([(time[i], i + 1) for i in range(n)])
print(" ".join(map(lambda stu: str(stu[1]), students)))
pre_sum, total = 0, 0
for stu in students:
    total += pre_sum
    pre_sum += stu[0]
print(f"{total/n:.2f}")

```

代码运行截图 （至少包含有"Accepted"）

状态: **Accepted**

源代码

```

n = int(input())
time = list(map(int, input().split()))
students = sorted([(time[i], i + 1) for i in range(n)])
print(" ".join(map(lambda stu: str(stu[1]), students)))
pre_sum, total = 0, 0
for stu in students:
    total += pre_sum
    pre_sum += stu[0]
print(f"{total/n:.2f}")

```

基本信息

#: 46822993
 题目: 21554
 提交人: misty
 内存: 3656kB
 时间: 28ms
 语言: Python3
 提交时间: 2024-10-29 22:00:46

01008: Maya Calendar

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

代码:

```
Haab = {"pop": 0, "no": 1, "zip": 2, "zotz": 3, "tzec": 4, "xul": 5, "yoxkin": 6, "mol": 7, "chen": 8,
"yax": 9, "zac": 10, "ceh": 11, "mac": 12, "kankin": 13, "muan": 14, "pax": 15, "koyab": 16,
"cumhu": 17, "uayet": 18}Tzolkin = {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 = int(day.rstrip("."))
    total = int(year) * 365 + Haab[month] * 20 + day
    print(total % 13 + 1, Tzolkin[total % 20], total // 260)
```

代码运行截图（至少包含有"Accepted"）

状态: **Accepted**

源代码

```
Haab = {"pop": 0, "no": 1, "zip": 2, "zotz": 3, "tzec": 4, "xul": 5, "yoxkin":
Tzolkin = {0: "imix", 1: "ik", 2: "akbal", 3: "kan", 4: "chicchan", 5: "cimi",
n = int(input())
print(n)
for _ in range(n):
    day, month, year = input().split()
    day = int(day.rstrip("."))
```

基本信息

#: 46823082

题目: 01008

提交人: misty

内存: 3652kB

时间: 27ms

语言: Python3

提交时间: 2024-10-29 22:05:35

545C. Woodcutters

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

代码:

```
n = int(input())s = [[int(x) for x in input().split()] for i in range(n)]count = 2if n == 1:
    print(1)else:
    for i in range(1, n-1):
        if s[i][0] - s[i-1][0] > s[i][1]:
            count += 1
        elif s[i+1][0] - s[i][0] > s[i][1]:
            count += 1
        s[i][0] += s[i][1]

    print(count)
```

代码运行截图（至少包含有"Accepted"）

By mistyshen, contest: Codeforces Round 303 (Div. 2), problem: (C) Woodcutters, **Accepted**, #, [Copy](#)

```
n = int(input())
s = [[int(x) for x in input().split()] for i in range(n)]
count = 2
if n == 1:
    print(1)
else:
```

01328: Radar Installation

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

代码:

```
import math

def solve(n, d, islands):
    if d < 0:
        return -1

    ranges = []
    for x, y in islands:
        if y > d:
            return -1
        delta = math.sqrt(d * d - y * y)
        ranges.append((x - delta, x + delta))

    if not ranges:
        return -1

    ranges.sort(key=lambda x:x[1])

    number = 1
    r = ranges[0][1]
    for start, end in ranges[1:]:
        if r < start:
            r = end
            number += 1

    return number

case_number = 0
while True:
    n, d = map(int, input().split())
    if n == 0 and d == 0:
        break

    case_number += 1
    islands = []
    for _ in range(n):
        islands.append(tuple(map(int, input().split())))

    result = solve(n, d, islands)
```

```
print(f"Case {case_number}: {result}")
input()
```

代码运行截图（至少包含有"Accepted"）

状态: **Accepted**

源代码

```
import math

def solve(n, d, islands):
    if d < 0:
        return -1

    ranges = []
```

基本信息

#: 46823580
题目: 01328
提交人: misty
内存: 3960kB
时间: 47ms
语言: Python3
提交时间: 2024-10-29 22:30:43

2. 学习总结和收获

- (1) 第三题和最后一题看答案都看了好久，自己想基本没有思路，看答案代码也要理解很久。
- (2) 这次作业难度比上次高了很多，但是很快要考高数和有机期中了，等期中考完得恶补一下。
- (3) 英文的题干一长就容易看不懂
- (4) 有些小细节即使学过也很快就忘，比如 Maya 日历一题中的.rstrip(". ")