Assignment #1: 自主学习

Updated 0110 GMT+8 Sep 10, 2024 2024 fall, Complied by 吕金浩, 物理学院

1. 题目

02733: 判断闰年

http://cs101.openjudge.cn/practice/02733/

```
大致用时: 5min
代码
year=int(input())
if year%3200 ==0:
    print('N')
elif year%400 ==0:
    print('Y')
elif year%100 ==0:
    print('N')
elif year%4 ==0:
    print('Y')
else:
    print('N')
```



02750: 鸡兔同笼

http://cs101.openjudge.cn/practice/02750/

```
大致用时: 8min
代码
num=int(input())
if num%2 !=0:
    print(0,0)
elif num%4 ==0:
    print(int(num/4),int(num/2))
```

else:

print(int((num+2)/4),int(num/2))



50A. Domino piling

greedy, math, 800, http://codeforces.com/problemset/problem/50/A

大致用时: 8min

代码

M,N=(input().split())

M=int(M)

N=int(N)

print(int(M*N/2))



1A. Theatre Square

math, 1000, https://codeforces.com/problemset/problem/1/A

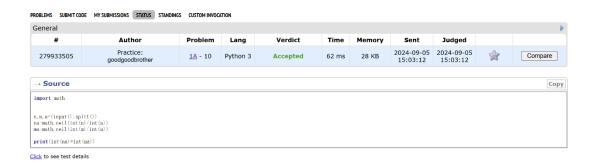
大致用时:7min

代码

import math

n,m,a=(input().split()) na=math.ceil(int(n)/int(a)) ma=math.ceil(int(m)/int(a))

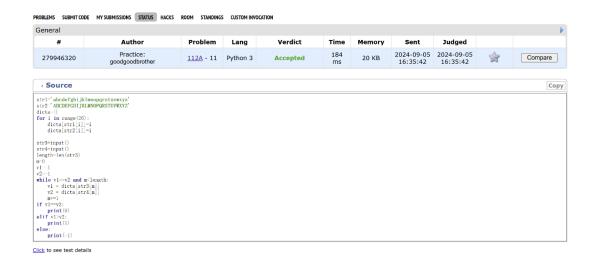
print(int(na)*int(ma))



112A. Petya and Strings

implementation, strings, 1000, http://codeforces.com/problemset/problem/112/A

```
大致用时: 15min
代码
str1='abcdefghijklmnopgrstuvwxyz'
str2='ABCDEFGHIJKLMNOPQRSTUVWXYZ'
dicta={}
for i in range(26):
    dicta[str1[i]]=i
    dicta[str2[i]]=i
str3=input()
str4=input()
length=len(str3)
m=0
v1 = -1
v2 = -1
while v1==v2 and m < length:
    v1 = dicta[str3[m]]
    v2 = dicta[str4[m]]
    m+=1
if v1 = = v2:
    print(0)
elif v1>v2:
    print(1)
else:
    print(-1)
```



231A. Team

print(num)

bruteforce, greedy, 800, http://codeforces.com/problemset/problem/231/A



2. 学习总结和收获

本人基本是这学期零基础开始学的 python, 经过几天的基础语法学习, 对目前作业难度的题目基本都应付得过来, 并且也逐渐在学到一些函数或者方法(比如上面那道 Petya and Strings, 开学前时我还不知道可以直接用 lower 方法, 创了一个字典去做, 非常麻烦)。现在我也有在及时跟进每日选做保持手感。