

Assignment #1: 自主学习

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2024 fall, Compiled 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')
```

#46004667提交状态

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状态: **Accepted**

源代码

```
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')
```

基本信息

#: 46004667

题目: 02733

提交人: lvjinhao

内存: 3948kB

时间: 25ms

语言: Python3

提交时间: 2024-09-05 11:30:35

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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))
```

#46004660提交状态

查看提交统计提问

状态: Accepted

源代码

```
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))
```

基本信息

#: 46004660

题目: 02750

提交人: lvjinhao

内存: 3592kB

时间: 20ms

语言: Python3

提交时间: 2024-09-05 11:26:08

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English帮助关于

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))
```

PROBLEMS SUBMIT CODE MY SUBMISSIONS STATUS HACKS ROOM STANDINGS CUSTOM INVOCATION

General

#	Author	Problem	Lang	Verdict	Time	Memory	Sent	Judged		
279880472	Practice: goodgoodbrother	50A - 14	Python 3	Accepted	156 ms	24 KB	2024-09-05 06:47:54	2024-09-05 06:47:54	★	Compare

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```
M,N=(input().split())
M=int(M)
N=int(N)
print(int(M*N/2))
```

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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))
```

PROBLEMS SUBMIT CODE MY SUBMISSIONS STATUS STANDINGS CUSTOM INVOCATION

General										
#	Author	Problem	Lang	Verdict	Time	Memory	Sent	Judged		
279933505	Practice: goodgoodbrother	1A - 10	Python 3	Accepted	62 ms	28 KB	2024-09-05 15:03:12	2024-09-05 15:03:12	★	Compare

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```
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))
```

[Click](#) to see test details

112A. Petya and Strings

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

大致用时：15min

代码

```
str1='abcdefghijklmnopqrstuvwxyz'
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)
```

PROBLEMS SUBMIT CODE MY SUBMISSIONS STATUS HACKS ROOM STANDINGS CUSTOM INVOCATION

General

#	Author	Problem	Lang	Verdict	Time	Memory	Sent	Judged		
279946320	Practice: goodgoodbrother	112A - 11	Python 3	Accepted	184 ms	20 KB	2024-09-05 16:35:42	2024-09-05 16:35:42	★	Compare

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```

str1='abcdefghijklmnopqrstuvwxyz'
str2='ABCDEFGHIJKLMNOPQRSTUVWXYZ'
dicta={}
for i in range(26):
    dicta[str1[i]]=i
    dicta[str2[i]]=i

str3=input()
str4=input()
length=len(str3)
n=0
v1=1
v2=-1
while v1!=v2 and n<length:
    v1=dicta[str3[n]]
    v2=dicta[str4[n]]
    n+=1
if v1==v2:
    print(0)
elif v1>v2:
    print(1)
else:
    print(-1)

```

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231A. Team

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

大致用时：7min

代码

```

n=int(input())
num=0
for i in range(n):
    lst=input().split()
    v1=int(lst[0])
    v2=int(lst[1])
    v3=int(lst[2])
    if v1+v2+v3>1:
        num+=1
print(num)

```

PROBLEMS SUBMIT CODE MY SUBMISSIONS STATUS HACKS ROOM STANDINGS CUSTOM INVOCATION

General

#	Author	Problem	Lang	Verdict	Time	Memory	Sent	Judged		
280139629	Practice: goodgoodbrother	231A - 11	Python 3	Accepted	124 ms	28 KB	2024-09-07 06:38:56	2024-09-07 06:38:57	★	Compare

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```

n=int(input())
num=0
for i in range(n):
    lst=input().split()
    v1=int(lst[0])
    v2=int(lst[1])
    v3=int(lst[2])
    if v1+v2+v3>1:
        num+=1
print(num)

```

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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。