

Assignment #1: 自主学习

2024 fall, Compiled by 金俊毅、物理学院24级

1. 题目

02733: 判断闰年

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

代码

```
a=int(input())
if a%400==0:
    print("Y")
elif a%100==0:
    print("N")
elif a%4==0:
    print("Y")
else:
    print("N")
```

#45970426提交状态

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状态: **Accepted**

源代码

```
a=int(input())
if a%2!=0:
    print(0,0)
elif a%4==0:
    print(a//4,a//2)
else:
    print((a-2)//4+1,a//2)
```

基本信息

#: 45970426
题目: 02750
提交人: jnullm
内存: 3592kB
时间: 22ms
语言: Python3
提交时间: 2024-08-29 00:27:00

02750: 鸡兔同笼

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

代码

```
a=int(input())
if a%2!=0:
    print(0,0)
elif a%4==0:
    print(a//4,a//2)
else:
    print((a-2)//4+1,a//2)
```

状态: Accepted

源代码

```
a=int(input())
if a%400==0:
    print("Y")
elif a%100==0:
    print("N")
elif a%4==0:
    print("Y")
else:
    print("N")
```

基本信息


#: 45970429
题目: 02733
提交人: jnullm
内存: 3596kB
时间: 21ms
语言: Python3
提交时间: 2024-08-29 00:27:21


50A. Domino piling

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

代码

```
a=input().split()
m=int(a[0])
n=int(a[1])
if m%2==0 or n%2==0:
    print(int(m*n/2))
else:
    print(int((m*n-1)/2))
```

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PROBLEMS SUBMIT CODE MY SUBMISSIONS **STATUS** HACKS ROOM STANDINGS CUSTOM INVOCATION

General

| # | Author | Problem | Lang | Verdict | Time | Memory | Sent | Judged | | |
|-----------|---------------------|--------------------------|----------|----------|--------|--------|---------------------|---------------------|---|-------------------------|
| 277938290 | Practice: jnullm | 50A - 14 | Python 3 | Accepted | 184 ms | 8 KB | 2024-08-24 18:59:30 | 2024-08-24 18:59:30 | ★ | Compare |

→ Source

Copy

```
a=input().split()
m=int(a[0])
n=int(a[1])
if m%2==0 or n%2==0:
    print(int(m*n/2))
else:
    print(int((m*n-1)/2))
```

1A. Theatre Square

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

代码

```
sq=input().split()
m=0
num=[]
for i in sq:
    sq[m]=int(sq[m])
    m+=1
for x in range(0,2):
    if sq[x]%sq[2]==0:
        num.append(sq[x]//sq[2])
    else:
        num.append(sq[x]//sq[2]+1)
print(num[0]*num[1])
```

| General | | | | | | | | |
|-----------|---------------------|-------------------------|----------|----------|-------|--------|------------------------|------------------------|
| # | Author | Problem | Lang | Verdict | Time | Memory | Sent | Judged |
| 278097863 | Practice: jnullm | 1A - 10 | Python 3 | Accepted | 77 ms | 44 KB | 2024-08-25 18:16:41 | 2024-08-25 19:12:59 |

→ [Source](#)

```
sq=input().split()
m=0
num=[]
for i in sq:
    sq[m]=int(sq[m])
    m+=1
for x in range(0,2):
    if sq[x]%sq[2]==0:
        num.append(sq[x]//sq[2])
    else:
        num.append(sq[x]//sq[2]+1)
print(num[0]*num[1])
```

112A. Petya and Strings

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

代码

```
s1=input()
s2=input()
s1=s1.lower()
s2=s2.lower()
m=0
for i in range(0,len(s1)):
    m+=1
    if s1[i]<s2[i]:
        print(-1)
        break
    if s1[i]>s2[i]:
        print(1)
        break
    if m==len(s1) and s1[len(s1)-1]==s2[len(s2)-1]:
        print(0)
```

PROBLEMS SUBMIT CODE MY SUBMISSIONS STATUS HACKS ROOM STANDINGS CUSTOM INVOCATION

General

| # | Author | Problem | Lang | Verdict | Time | Memory | Sent | Judged | |
|-----------|---------------------|---------------------------|----------|----------|--------|--------|------------------------|------------------------|--|
| 278118761 | Practice: jnullm | 112A - 11 | Python 3 | Accepted | 154 ms | 52 KB | 2024-08-25 18:43:55 | 2024-08-25 18:52:29 | |

→ Source

```
s1=input()
s2=input()
s1=s1.lower()
s2=s2.lower()
if s1>s2:
    print(1)
elif s1==s2:
    print(0)
else:
    print(-1)
```

231A. Team

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

代码

```
question=int(input())
N=0
num=0
for i in range(0,question):
    verdict=input().split()
    for h in verdict:
        if int(h)==1:
            num+=1
    if num>=2:
        N+=1
    num=0
print(N)
```

PROBLEMS SUBMIT CODE MY SUBMISSIONS STATUS HACKS ROOM STANDINGS CUSTOM INVOCATION

General

| # | Author | Problem | Lang | Verdict | Time | Memory | Sent | Judged |
|-----------|---------------------|---------------------------|----------|----------|--------|--------|------------------------|------------------------|
| 278275910 | Practice: jnullm | 231A - 11 | Python 3 | Accepted | 184 ms | 24 KB | 2024-08-26 18:10:34 | 2024-08-26 18:10:34 |

→ Source

```
question=int(input())
N=0
num=0
for i in range(0,question):
    verdict=input().split()
    for h in verdict:
        if int(h)==1:
            num+=1
    if num>=2:
        N+=1
    num=0
print(N)
```

2. 学习总结和收获

目前做题思路仍然比较僵硬，还不够灵活，尽管每日选做的题都比较容易做出来，但在每一次做完题，然后跟答案的代码比较的时候，总能学到一些新奇的思路和没见过的函数