

1. 题目

02733: 判断闰年

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

思路：

- 按提示判断是否为闰年
- 注意到题目保证年份不超过3000，不需要考虑被3200整除的情况

代码

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

代码运行截图 ==（至少包含有"Accepted"）==



OpenJudge 题目ID, 标题, 描述 搜索 Chaitinlen 信箱 账号

CS101 / 题库 (包括计概、数算题目)

题目 排名 状态 提问

#46041510 提交状态 查看 提交 统计 提问

状态: Accepted

源代码

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

基本信息

#: 46041510
题目: 02733
提交人: 颜鼎堃(Chaitinlen)
内存: 3540kB
时间: 21ms
语言: Python3
提交时间: 2024-09-10 17:01:24

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02750: 鸡兔同笼

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

思路：

- 要注意除法之后转为整数输出！

代码

```
a = int(input())
if a % 2 == 1:
    print("0 0")
else:
    max_animal = a/2
    min_animal = max_animal // 2 + max_animal % 2
    print(str(int(min_animal)) + ' ' + str(int(max_animal)))
```

代码运行截图 ==（至少包含有"Accepted"）==



OpenJudge 题目ID, 标题, 描述 Chaitinlen 信箱 账号

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题目 排名 状态 提问

#46041350提交状态 查看 提交 统计 提问

状态: Accepted

源代码

```
a = int(input())
if a % 2 == 1:
    print("0 0")
else:
    max_animal = a/2
    min_animal = max_animal // 2 + max_animal % 2
    print(str(int(min_animal)) + ' ' + str(int(max_animal)))
```

基本信息

- #: 46041350
- 题目: 02750
- 提交人: 颜鼎堃 (Chaitinlen)
- 内存: 3608kB
- 时间: 21ms
- 语言: Python3
- 提交时间: 2024-09-10 16:49:10

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50A. Domino piling

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

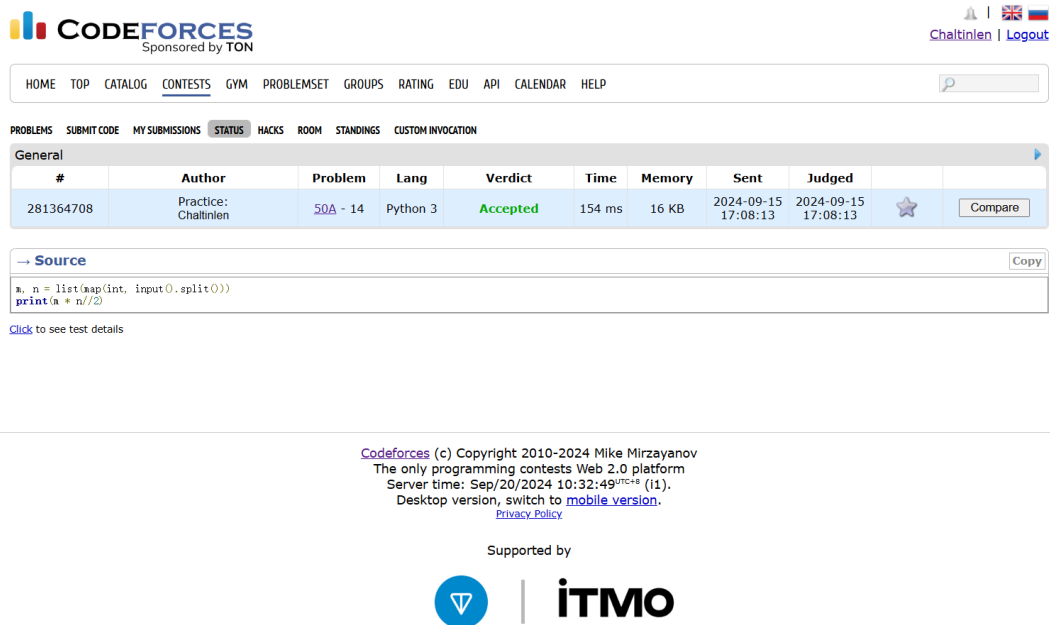
思路：

- 要么能直接铺满，要么只差一格，直接取整就好

代码

```
m, n = list(map(int, input().split()))
print(m * n//2)
```

代码运行截图 == (AC代码截图, 至少包含有"Accepted") ==



The screenshot shows the Codeforces website interface. At the top, the Codeforces logo is visible, along with user information for 'Chaltinlen' and a 'Logout' button. The navigation bar includes links for HOME, TOP, CATALOG, CONTESTS, GYM, PROBLEMSET, GROUPS, RATING, EDU, API, CALENDAR, and HELP. Below the navigation bar, there are tabs for PROBLEMS, SUBMIT CODE, MY SUBMISSIONS, STATUS, HACKS, ROOM, STANDINGS, and CUSTOM INVOCATION. The 'STATUS' tab is selected, displaying a table of submission details.

#	Author	Problem	Lang	Verdict	Time	Memory	Sent	Judged		
281364708	Practice: Chaltinlen	50A - 14	Python 3	Accepted	154 ms	16 KB	2024-09-15 17:08:13	2024-09-15 17:08:13	☆	Compare

Below the table, there is a 'Source' link and a 'Copy' button. The source code is displayed in a text area:

```
m, n = list(map(int, input().split()))
print(m * n//2)
```

Below the source code, there is a link to 'Click to see test details'.

At the bottom of the page, there is a footer with copyright information for Codeforces (c) Copyright 2010-2024 Mike Mirzayanov, the only programming contests Web 2.0 platform, server time, and desktop version information. It also mentions 'Supported by' and logos for V and ITMO.

1A. Theatre Square

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

思路:

- 要注意做除法的时候向上取整, 用 `//` 运算的时候要判断是否除尽, 除尽才能加一

代码

```

m, n, a = list(map(int, input().split()))
length = m // a
width = n // a
if m % a != 0:
    length += 1
if n % a != 0:
    width += 1
print(str(length * width))

```

代码运行截图 ==（AC代码截图，至少包含有"Accepted"）==

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#	Author	Problem	Lang	Verdict	Time	Memory	Sent	Judged		
281319631	Practice: Chaitinien	1A - 10	Python 3	Accepted	77 ms	20 KB	2024-09-15 10:42:03	2024-09-15 10:42:03	☆	Compare

→ Source Copy

```

a, n, a = list(map(int, input().split()))
length = a // a
width = n // a
if a % a != 0:
    length += 1
if n % a != 0:
    width += 1
print(str(length * width))

```

[Click to see test details](#)

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Server time: Sep/20/2024 10:37:05^{UTC+8} (f1).
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112A. Petya and Strings

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

思路：

- 转成列表，一个个比较

代码

```

s = list(input().lower())
t = list(input().lower())
for i in range(len(s)):
    if s[i] > t[i]:
        print(1)
        exit()
    if s[i] < t[i]:
        print(-1)
        exit()

print(0)

```

代码运行截图 ==（AC代码截图，至少包含有"Accepted"）==

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

#	Author	Problem	Lang	Verdict	Time	Memory	Sent	Judged		
281374351	Practice: Chaltinlen	112A - 11	Python 3	Accepted	156 ms	28 KB	2024-09-15 18:18:35	2024-09-15 18:18:35	☆	Compare

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```

s = list(input().lower())
t = list(input().lower())
for i in range(len(s)):
    if s[i] > t[i]:
        print(1)
        exit()
    if s[i] < t[i]:
        print(-1)
        exit()

print(0)

```

[Click to see test details](#)

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231A. Team

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

思路：

代码

```
n = int(input())
problems = 0
for i in range(n):
    a, b, c = list(map(int, input().split()))
    if a + b + c > 1:
        problems += 1

print(problems)
```

代码运行截图 ==（AC代码截图，至少包含有"Accepted"）==

The screenshot shows the Codeforces website interface. At the top, the Codeforces logo is displayed with 'Sponsored by TON'. The navigation bar includes links for HOME, TOP, CATALOG, CONTESTS (active), GYM, PROBLEMSET, GROUPS, RATING, EDU, API, CALENDAR, and HELP. Below the navigation bar, there are tabs for PROBLEMS, SUBMIT CODE, MY SUBMISSIONS, STATUS (active), HACKS, ROOM, STANDINGS, and CUSTOM INVOCATION. The main content area shows a submission for problem 231A - 11 in Python 3, with a verdict of 'Accepted'. The submission details table includes columns for #, Author, Problem, Lang, Verdict, Time, Memory, Sent, and Judged. The submission was made on 2024-09-15 at 11:09:18. Below the table, there is a 'Source' section showing the code snippet from the first image. At the bottom, there is a footer with copyright information for Codeforces (c) Copyright 2010-2024 Mike Mirzayanov, and logos for supported organizations like V and ITMO.

2. 学习总结和收获

==如果作业题目简单，有否额外练习题目，比如：OJ“计概2024fall每日选做”、CF、LeetCode、洛谷等网站题目。==

我在之前学习过基础的C和C++知识，Python略有涉及，在完成了作业与部分每日选做题后，认识到自己还有如下不足：

1. 基础数据结构与基础方法掌握不好。对于列表和字符串的部分基本函数、方法的语法掌握不够清晰，部分基础方法（如 `join`、`sort`、`index` 等）运用时易出现语法错误等
2. 易忘记考虑边界数据或特殊数据，以后可以在本地测试时编一些特殊数据用于测试
3. 循环中删除元素后列表长度变化导致下标越界，需要更习惯于Python风格的 `for i in list`，适当减少对 `range` 函数的依赖

除了这些问题之外，还有很多细节上的、思路上的问题，我将部分问题和注意点记录在了文档里，便于以后参考。

我的github仓库：[2024计算概论学习资料](#)