## Task 1 LeetCode 383:

from collections import Counter

class Solution:

def canConstruct(self, ransomNote: str, magazine: str) -> bool:

randict=dict(Counter(ransomNote))

magadict=dict(Counter(magazine))

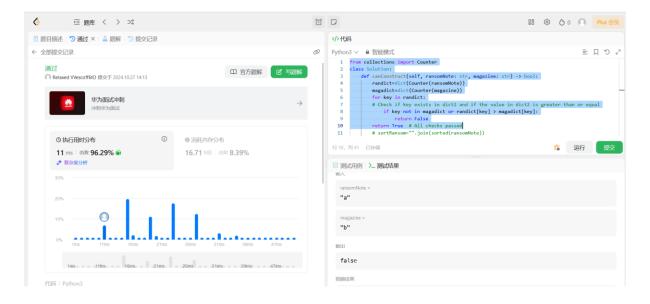
for key in randict:

# Check if key exists in dict2 and if the value in dict2 is greater than or equal

if key not in magadict or randict[key] > magadict[key]:

return False

return True # All checks passed



## Idea for code:

Create a dictionary for ransomNote and magazine. We first need to make sure all keys in the ransomNote dict appears in magazine, then if this condition passes, we need to make sure the number of times which each key appears in ransomNote must be less or equal to the number of appearances in the magazine dict. If both conditions are true, return true.

## Task 2

第二个 task 没有用到 debug tool, 我比较了一下 tutorial 里面用到的 code (Fig.1)发现 res\_json = json.loads(res) 是多余的, 加上报错信息也在第 30 行 (Fig.2). comment 之后无报错, 结果如图三所示, InternLM 成功回答了 prompt 的内容

## 5.2 如何使用InternLM api

我们可以使用openai python sdk来调用InternLM api。注意在配置api key时,更推荐使用环境变量来配置以避免token泄露。

```
Q
#./internlm test.pv
from openai import OpenAI
import os
def internlm_gen(prompt,client):
   LLM生成函数
   Param prompt: prompt string
   Param client: OpenAI client
   response = client.chat.completions.create(
       model="internlm2.5-latest",
       messages=[
           {"role": "user", "content": prompt},
        stream=False
   return response.choices[0].message.content
api_key = os.getenv('api_key')
#api_key = "" #也可以明文写在代码内, 不推荐
client = OpenAI(base_url="https://internlm-chat.intern-ai.org.cn/puyu/api/v1/",api_key=api_key)
prompt = '''你好! 你是谁?'''
response = internlm_gen(prompt,client)
print(response)
```

Fig 1.

```
(myenv) root@intern-studio-50171713:~/demo# python API.py
Traceback (most recent call last):
    File "/root/demo/API.py", line 30, in <module>
        res_json = json.loads(res)
    File "/root/.conda/envs/myenv/lib/python3.9/json/__init__.py", line 346, in loads
        return _default_decoder.decode(s)
    File "/root/.conda/envs/myenv/lib/python3.9/json/decoder.py", line 337, in decode
        obj, end = self.raw_decode(s, idx=_w(s, 0).end())
    File "/root/.conda/envs/myenv/lib/python3.9/json/decoder.py", line 355, in raw_decode
        raise JSONDecodeError("Expecting value", s, err.value) from None
json.decoder.JSONDecodeError: Expecting value: line 1 column 1 (char 0)
```

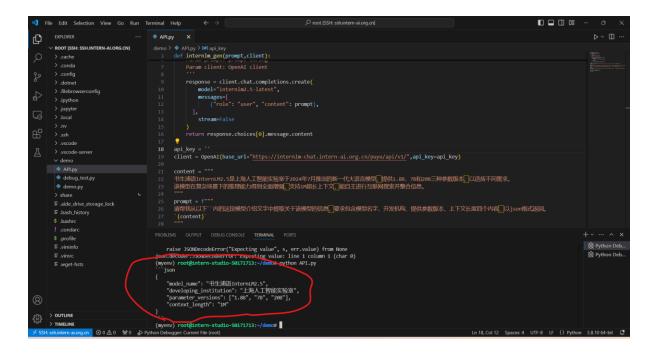


Fig 3