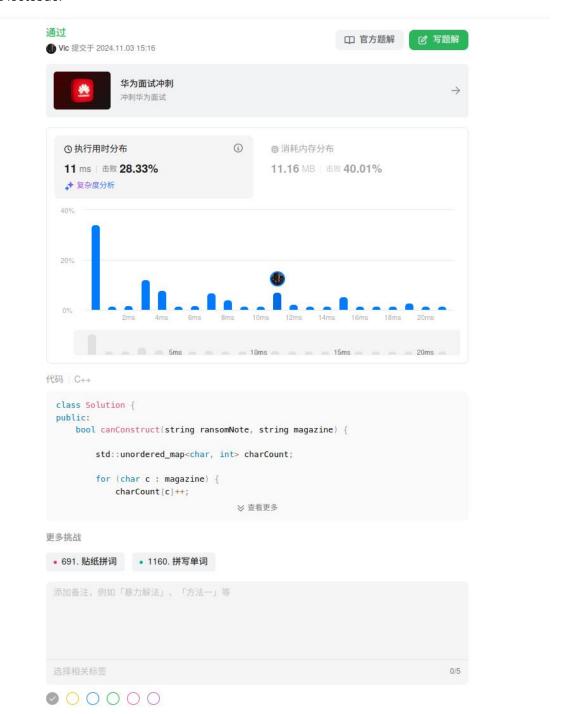
## 入门关卡——第2关

### 1 leetcode:



## 2 Debug:

res 格式不是正规 json 格式

#### 直接打印 res

```
(py) root@intern-studio-002867:-/test# python test.py
Traceback (most recent call last):
    File "/root/test/test.py", line 33, in <module>
        res json = json.loads(res)
    File "/root/py/lib/python3.10/json/_init__.py", line 346, in loads
        return default decoder.decode(s)
    File "/root/py/lib/python3.10/json/decoder.py", line 337, in decode
    obj, end = self.raw_decode(s, idx=_w(s, 0).end())
    File "/root/py/lib/python3.10/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)
```

```
(/root/py) root@intern-studio-002867:~/test# python test.py
``json
{
    "model_name": "书生浦语InternLM2.5",
    "developer": "上海人工智能实验室",
    "parameter_versions": [1.8B, 7B, 20B],
    "context_length": 1M
}
...
```

3:使用 VScode 连接开发机后使用 pip install -t 命令安装一个 numpy 到看开发机 /root/myenvs 目录下, 并成功在一个新建的 python 文件中引用。

Pip install numpy 但 pip 路径不对

```
(base) root@intern-studio-002867:-# conda deactivate
   root@intern-studio-002867:-# conda activate /share/envs/pytorch2.1.2-base
(pytorch2.1.2-base) root@intern-studio-002867:-# ls
   share
(pytorch2.1.2-base) root@intern-studio-002867:-# mkdir -p /root/myenvs
(pytorch2.1.2-base) root@intern-studio-002867:-# pip install numpy --target /root/myenvs
bash: /share/envs/pytorch2.1.2-base/bin/pip: /root/.conda/envs/pytorch2.1.2-base/bin/python: bad interpreter: No such file or directory
(pytorch2.1.2-base) root@intern-studio-002867:-# ls
   myenvs share
(pytorch2.1.2-base) root@intern-studio-002867:-# /share/envs/pytorch2.1.2-base/bin/python --version
Python 3.10.14
```

### 使用 conda install:

```
(pytorCn2.1.2-Dase) root@intern-studio-00250/:~# conda install numpy -p /root/myenvs
Retrieving notices: ...working... done
Collecting package metadata (current repodata.json): done
Solving environment: unsuccessful initial attempt using frozen solve. Retrying with flexible solve.
Solving environment: unsuccessful attempt using repodata from current_repodata.json, retrying with next repodata source.
Collecting package metadata (repodata.json): done
Solving environment: done
## Package Plan ##
   environment location: /root/myenvs
   added / updated specs:
         numpy
The following packages will be downloaded:
                                                                        build
      package
      _libgcc_mutex-0.1
_openmp_mutex-5.1
blas-1.0
bzip2-1.0.8
ca-certificates-2024.9.24
                                                                          main
                                                                                                    3 KB defaults
                                                                         1_gnu
mkl
                                                                                                21 KB defaults
6 KB defaults
262 KB defaults
130 KB defaults
                                                                 h5eee18b_6
                                                                h06a4308 0
                                                                 h6a678d5 0
                                                                                                 176 KB
       intel-openmp-2023.1.0
                                                        hdb19cb5 46306
                                                                                               17.2 MB
```

### 编写一个 numpy 测试样例:

# 成功输出:

```
(pytorch2.1.2-base) root@intern-studio-002867:~# ls
myenvs share test
(pytorch2.1.2-base) root@intern-studio-002867:~# cd test
(pytorch2.1.2-base) root@intern-studio-002867:~/test# ls
__pycache__ test.py
(pytorch2.1.2-base) root@intern-studio-002867:~/test# python test.py
/root/share/envs/pytorch2.1.2-base/lib/python3.10/site-packages/numpy/core/include

Time taken for matrix multiplication:
0.312575 seconds
(pytorch2.1.2-base) root@intern-studio-002867:~/test#
```