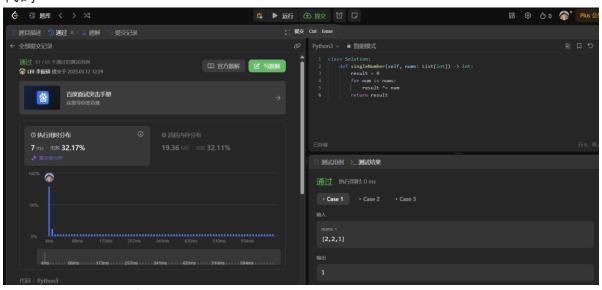
Assignment #4: 位操作、栈、链表、堆和NN Updated 1203 GMT+8 Mar 10, 2025 2025 spring, Complied by 李振硕、信息管理系

1. 题目

136.只出现一次的数字

bit manipulation, https://leetcode.cn/problems/single-number/ <mark>请用位操作来实现,并且只使用常量额外空间。</mark> 代码:



杳看

提交

统计

20140:今日化学论文

stack, http://cs101.openjudge.cn/practice/20140/

思路: 代码:

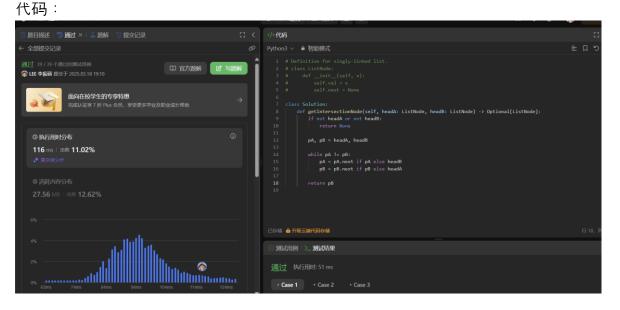
,, #48595308提交状态

```
状态: Accepted
                                                                                     基本信息
                                                                                            #: 48595308
                                                                                         题目: 20140
 def decompress string(s):
                                                                                       提交人: 24n2300093007
      current_string = ""
                                                                                        内存: 3824kB
                                                                                         时间: 40ms
     n = len(s)
                                                                                         语言: Pvthon3
                                                                                     提交时间: 2025-03-16 18:33:49
      while i < n:
          if s[i] == '[':
              stack.append((current_string, 0))
              current_string = "
          elif s[i] == ']':
              prev_string, count = stack.pop()
current_string = prev_string + current_string * count
          elif s[i].isdigit():
              while i < n and s[i].isdigit():
    num = num * 10 + int(s[i])
    i += 1</pre>
                  stack[-1] = (stack[-1][0], num)
              current_string += s[i]
      return current_string
 compressed string = input().strip()
 print(decompress_string(compressed_string))
```

160.相交链表

linked list, https://leetcode.cn/problems/intersection-of-two-linkedlists/

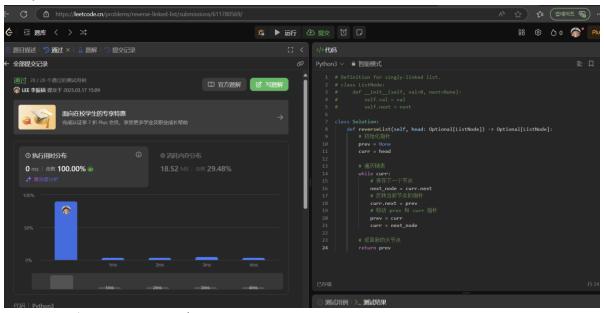
思路:



206. 反转链表

linked list, https://leetcode.cn/problems/reverse-linked-list/

思路: 代码:

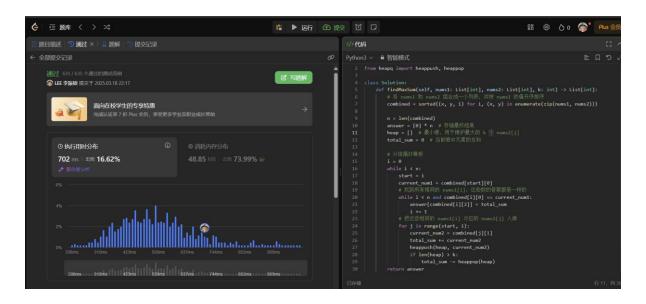


3478. 选出和最大的K个元素

heap, https://leetcode.cn/problems/choose-k-elements-with-maximum-sum/

思路:

代码



2. 学习总结和收获

这次写作业的过程中学到了堆和stack用法以及性质,还学到了链表的结构。因为这些题都是没做过的题,感到需要复习。