```
In [13]:
         ₩ # Q1
             li=[-10, -4, 1,3,2,5,1]
             mx=max(li)
             idx=li.index(mx)
             diff=[]
             for i in range(idx):
                 diff.append(mx-li[i])
                 print(f'(\{mx\}) - (\{li[i]\}) = \{mx-li[i]\}')
             print('max diff: ',max(diff))
             (5) - (-10) = 15
             (5) - (-4) = 9
             (5) - (1) = 4
             (5) - (3) = 2
             (5) - (2) = 3
             max diff: 15
In [14]:
          ₩ #Q2
             with open('story.txt','r') as file:
                 text=file.read()
                 words=text.split()
                 words_set=set(words)
                 word list=[]
                 freq=[]
                 for word in words_set:
                     word_list.append(word)
                     freq.append(words.count(word))
                     #print(f'{word} => {words.count(word)}')
                 mx=sorted(freq)[-2]
                 print(word_list[freq.index(mx)])
```

а

```
In [77]: ▶ # 03
             class Task:
                 def init (self, priority, name, assignee):
                     self.priority=priority
                     self.name=name
                     self.assignee=assignee
                     return None
             class PriorityTasks(Task):
                 def __init__(self, priority, name, assignee):
                     self.priority=priority
                     self.name=name
                     self.assignee=assignee
                     self.create task()
                     return None
                 def create task(self):
                     return Task.__init__(self, self.priority, self.name, self.assignee)
                 def update_priority(self, new_priority):
                     if self.priority==-1:
                         self.__del__()
                     else:
                         self.priority=new priority
                     return None
                 def list_tasks(self, task_list):
                     for task in task list:
                         print(f'{task.name} created by {task.assignee} has priority as {t
                     return None
```

```
In [82]:
          print('Enter Choice: ')
                 print('1. Create Task')
                 print('2. Update Task Priority')
                 print('3. List All Tasks Details')
                 print('4. Exit')
                 choice=int(input())
                 if choice==1:
                     p=int(input('Enter Priroty: '))
                     n=input('Enter Name: ')
                     a=input('Enter Assignee Name: ')
                     obj=PriorityTasks(p,n,a)
                     task list.append(obj)
                 elif choice==2:
                     indx=int(input('Enter Task Index: '))
                     p=int(input('Provide Updated Task Priority: '))
                     if p==-1:
                         del task_list[indx]
                     else:
                         task list[indx].update priority(p)
                 elif choice==3:
                     if len(task_list)==0:
                         print('No Task To Display')
                     else:
                         PriorityTasks.list_tasks(task_list[0], task_list)
                 elif choice==4:
                     break
                 else:
                     break
```

```
Enter Choice:
1. Create Task
2. Update Task Priority
3. List All Tasks Details
4. Exit
t1 created by pv has priority as -1
Enter Choice:
1. Create Task
2. Update Task Priority
3. List All Tasks Details
4. Exit
2
Enter Task Index: 0
Provide Updated Task Priority: -1
Enter Choice:
1. Create Task
2. Update Task Priority
3. List All Tasks Details
4. Exit
3
No Task To Display
Enter Choice:
1. Create Task
2. Update Task Priority
```

- 3. List All Tasks Details
- 4. Exit
- 4