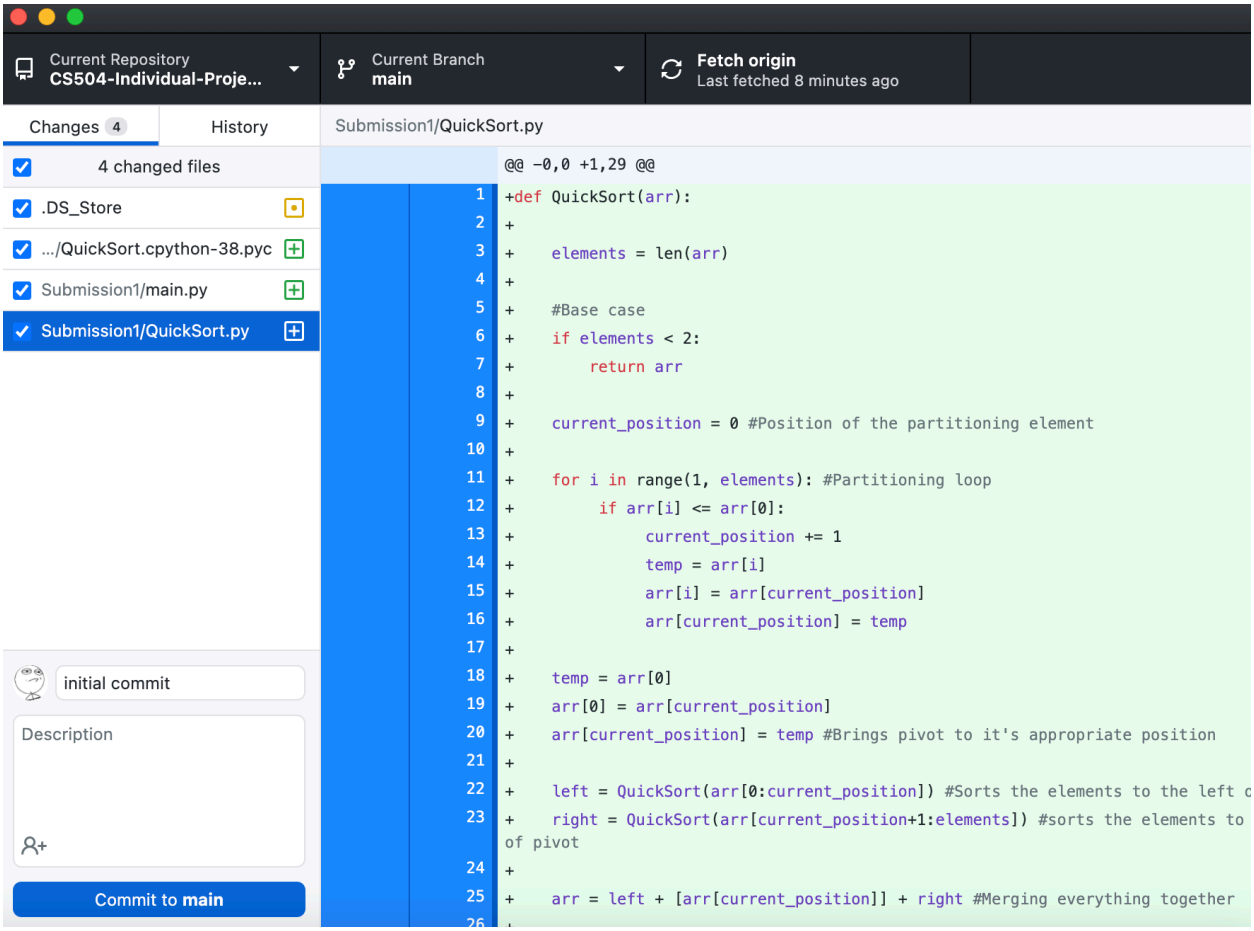
IP1: Configuration Management System

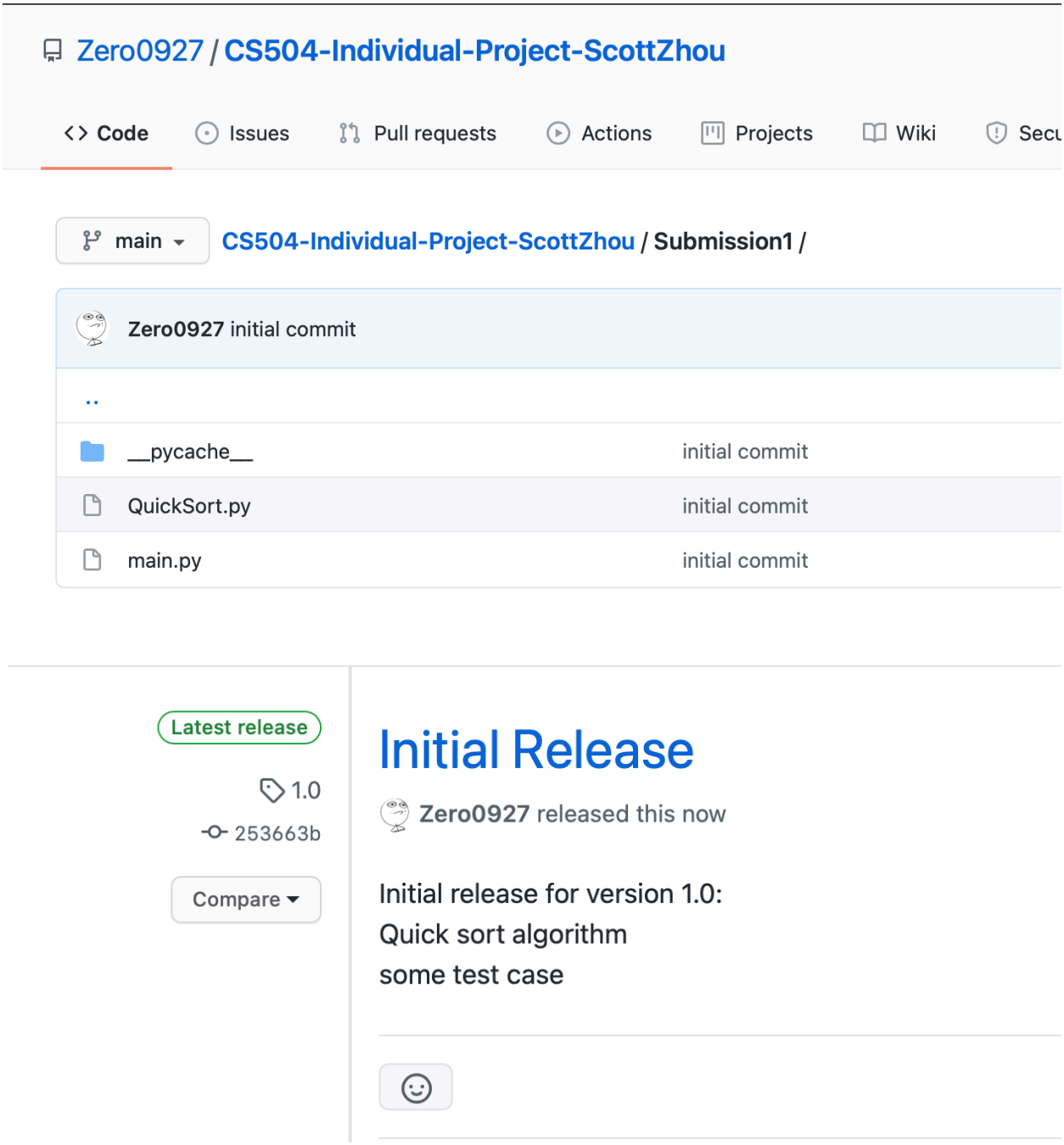
Repository Link

The student will create test cases to demonstrate how the following situations are handled in the CMS and related processes:

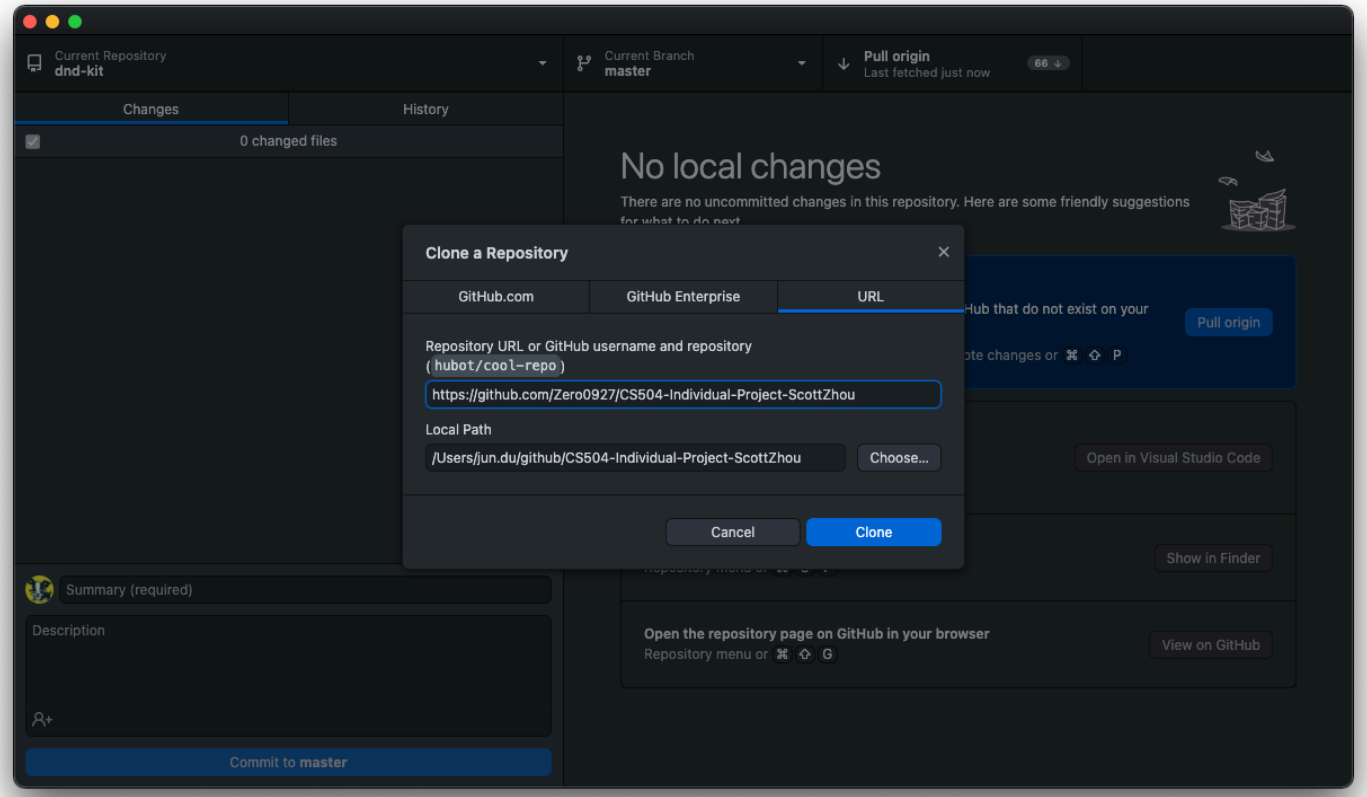
- Code check out
- Code check in
- Code snapshot (or release point)
- Code in development by two users, first one checks out code, second checks out code, makes changes and checks in, first makes changes and needs to check in.
- Code changes need to be rolled back to a previous level.
- One developer is working on a new version, one is fixing bugs in a previous release.

Developer1 created repository for a project that contains method to sort list. The program takes unsorted list and sort it by using QuickSort algorithm. This is the first release for version 1.0.

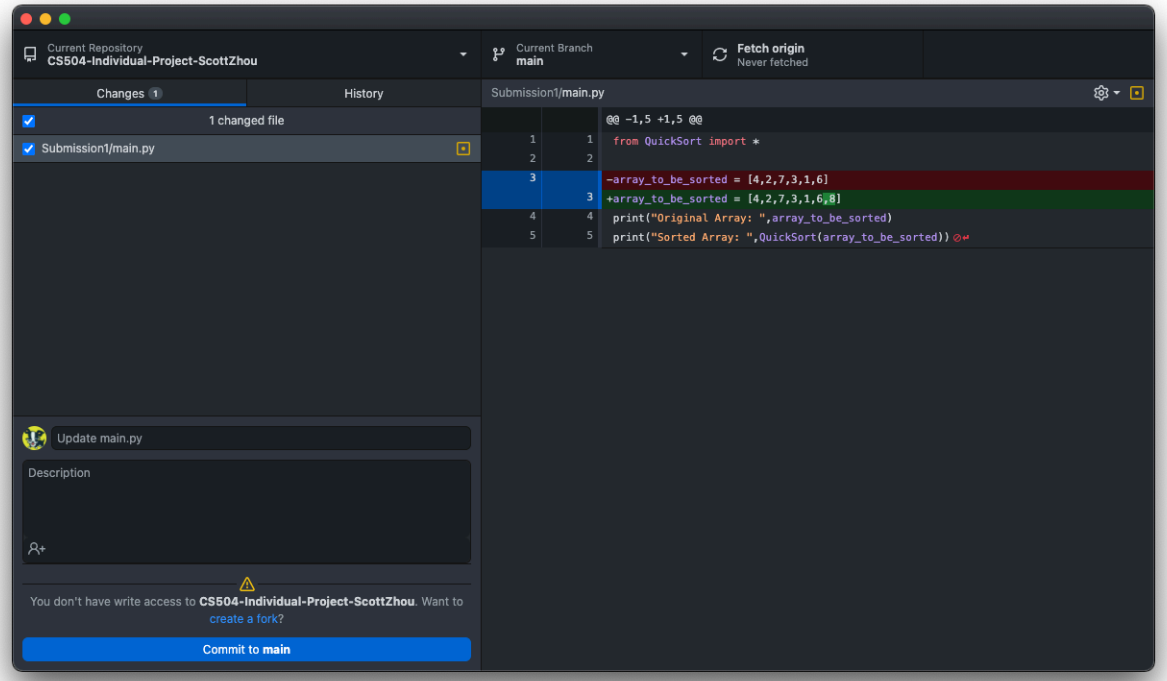


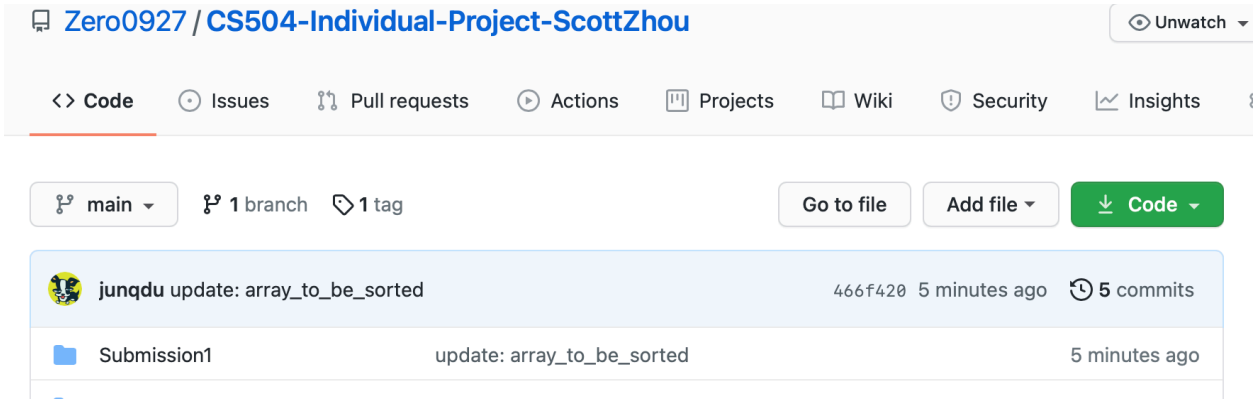


Developer2 clone the repository to its local directory and start working on it.

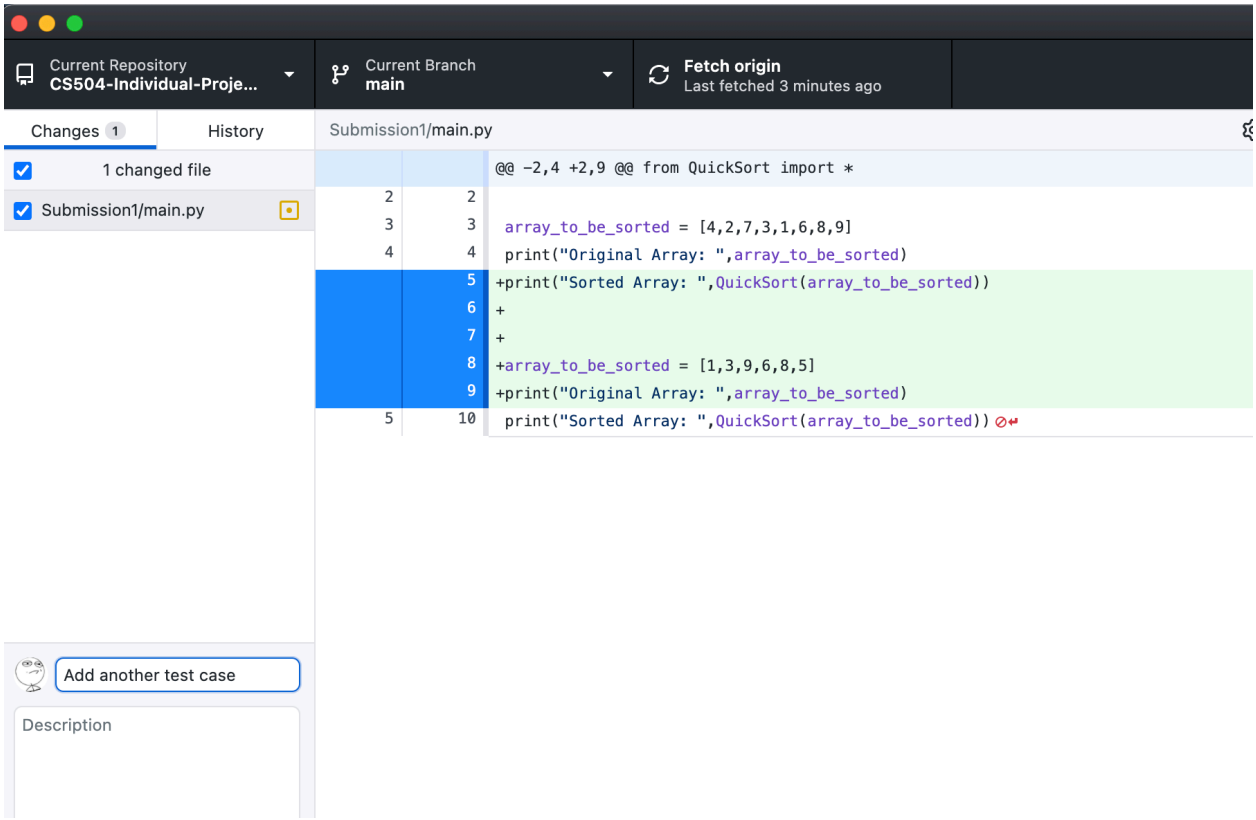


Developer 2 adding extra element into the test list and push it to Github.





Developer1 pull the repo, add new test case in the main program, push it to the Github.



main ▾ CS504-Individual-Project-ScottZhou / Submission1 / main.py / <> Jump to ▾

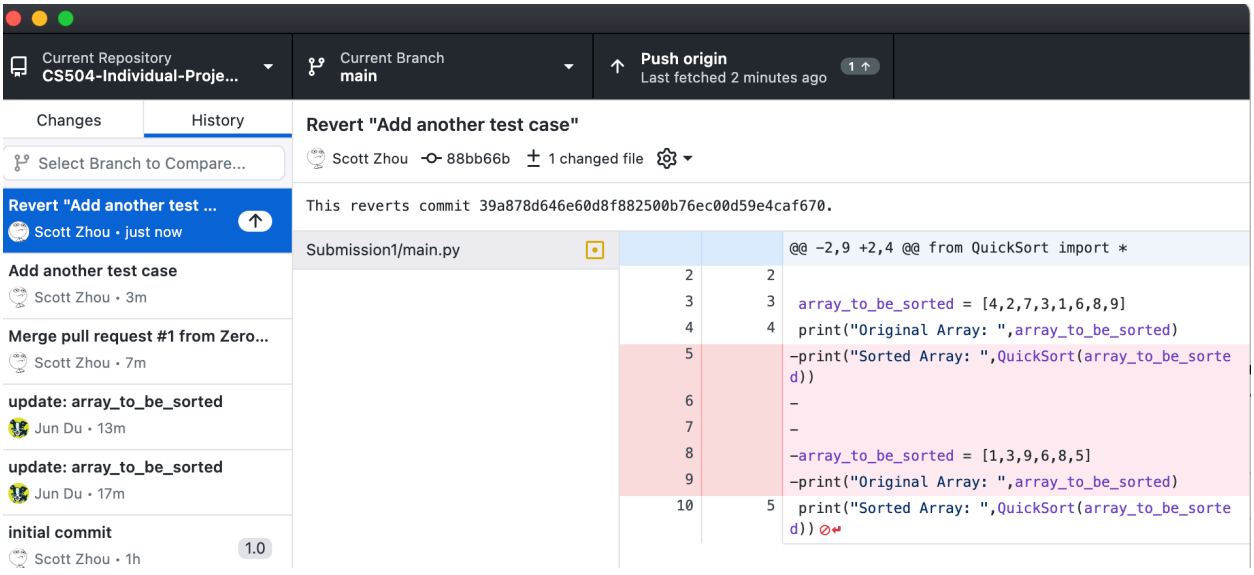
Zero0927 Add another test case

2 contributors

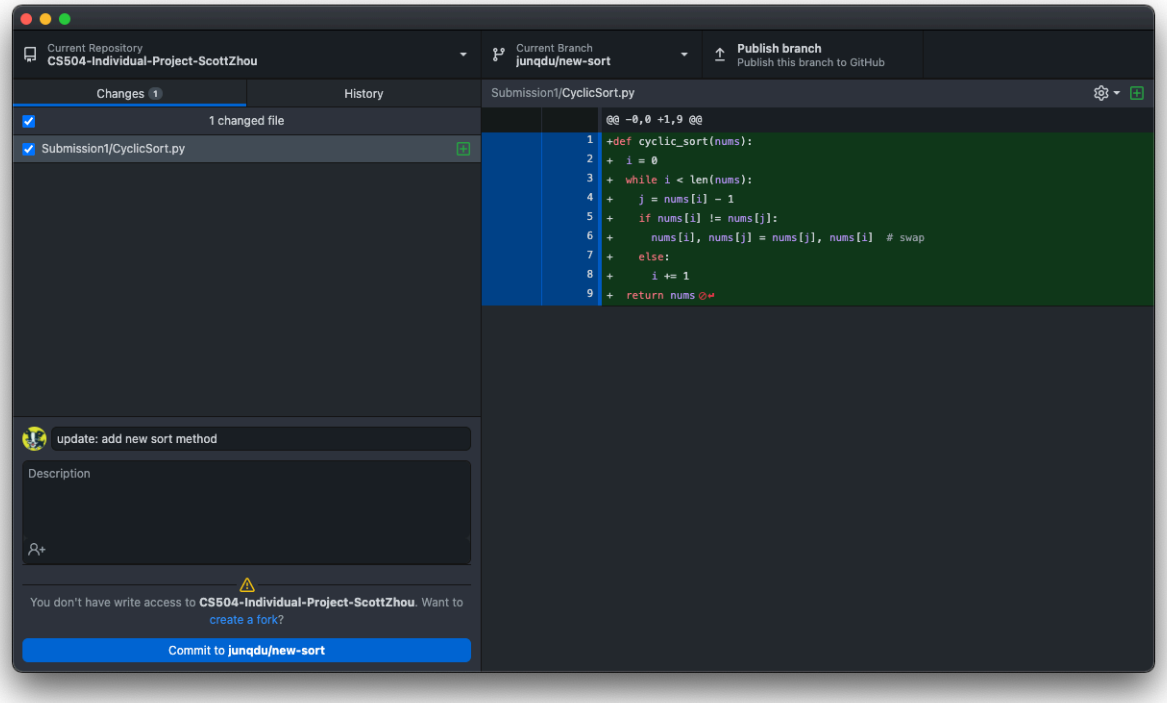
10 lines (7 sloc) | 298 Bytes

```
1  from QuickSort import *
2
3  array_to_be_sorted = [4,2,7,3,1,6,8,9]
4  print("Original Array: ",array_to_be_sorted)
5  print("Sorted Array: ",QuickSort(array_to_be_sorted))
6
7
8  array_to_be_sorted = [1,3,9,6,8,5]
9  print("Original Array: ",array_to_be_sorted)
10 print("Sorted Array: ",QuickSort(array_to_be_sorted))
```

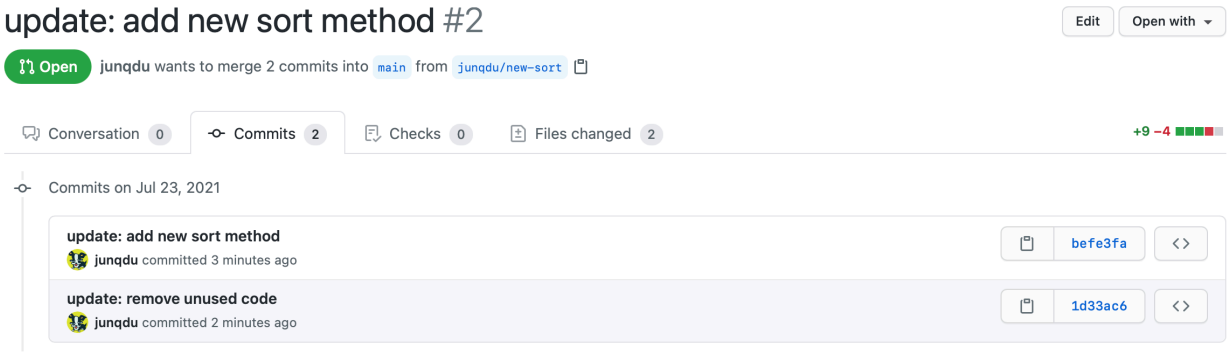
After it push to the Github, Developer1 realize it is not a good test case, so he revert it to the previous commit.



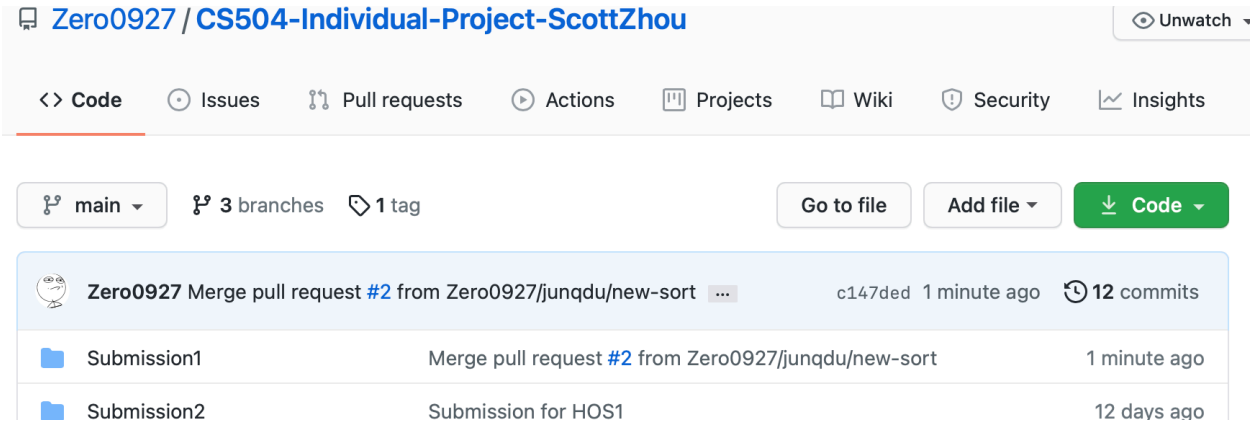
Developer 2 create new branch want to implement a new sorting algorithm.



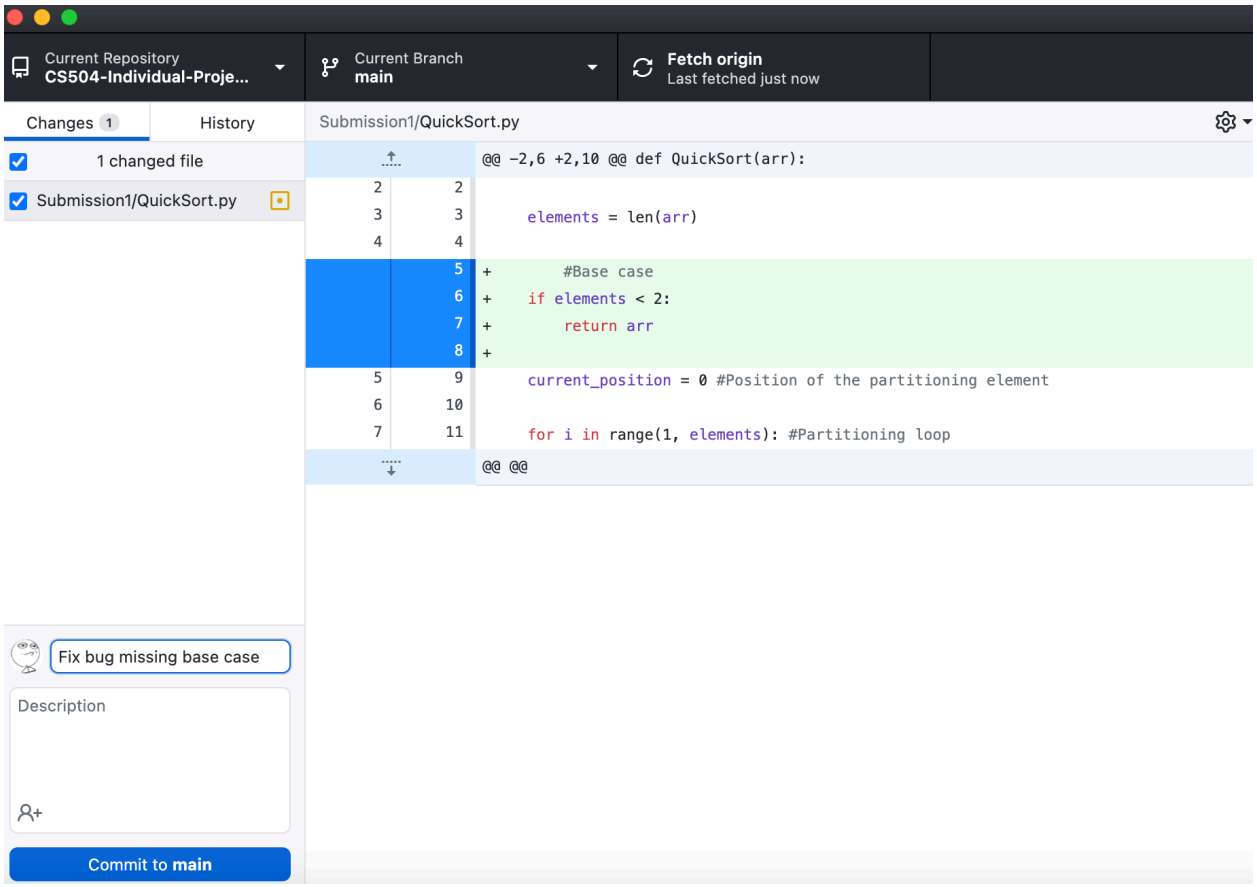
Developer 2 start a pull request to merge it into main branch.

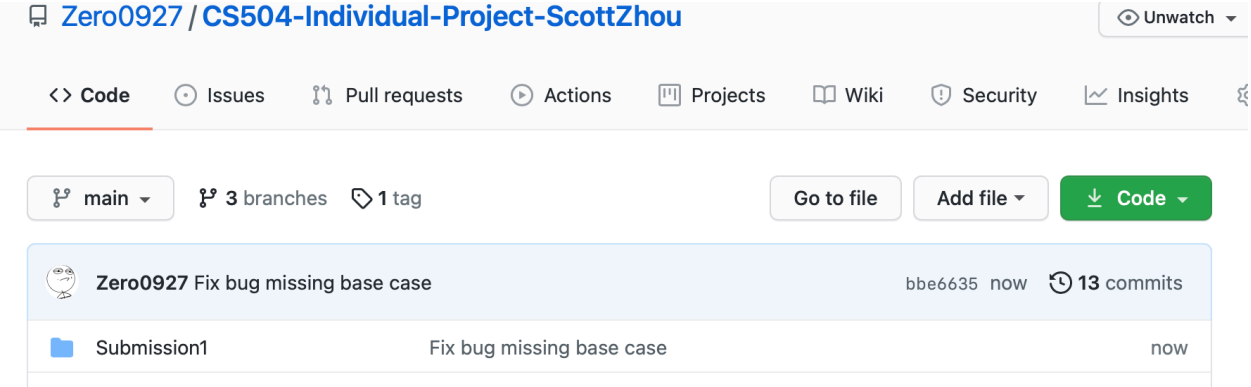


Developer1 approve Developer2 merge request and start merging.



In the meantime, Developer1 found bug and fixed it.





Bug has been fixed by Developer1, New algorithm has been added by Developer 2.