Homework 4

(a) How many mutants are there?

There are 243 mutants if select `All method`.

There are 237 mutants if select `int_cal()`.

(b) How many test cases do you need to kill the non-equivalent mutants?

I wrote 10 test cases to kill non-equivalent mutants. But maybe it can be optimized.

(c) What mutation score were you able to achieve before analyzing for equivalent mutants?
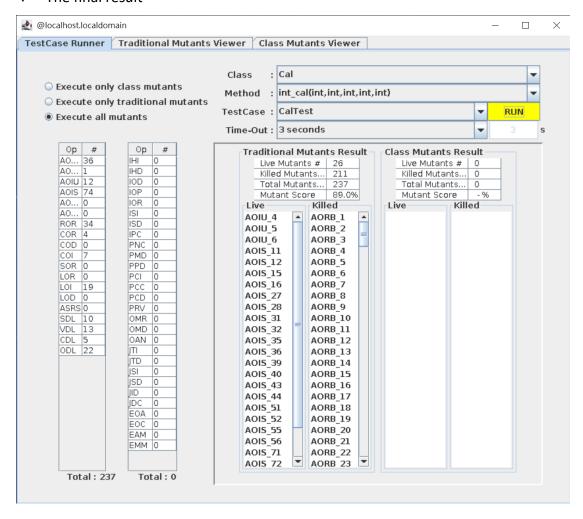
In the beginning, I wrote 5 test cases and the Mutant Score reached 67%.

After analyzing which are equivalent mutants, I added another 5 tests to kill the non-equivalent mutants and got a score of 89%.

(d) How many equivalent mutants are there?

There are 26 equivalent mutants in `int_cal()`.

▼ The final result

The source code and test cases:

https://github.com/season06/NYCU-Software-Testing-2022/tree/master/Homework/HW4