CPSC 335 Project 1

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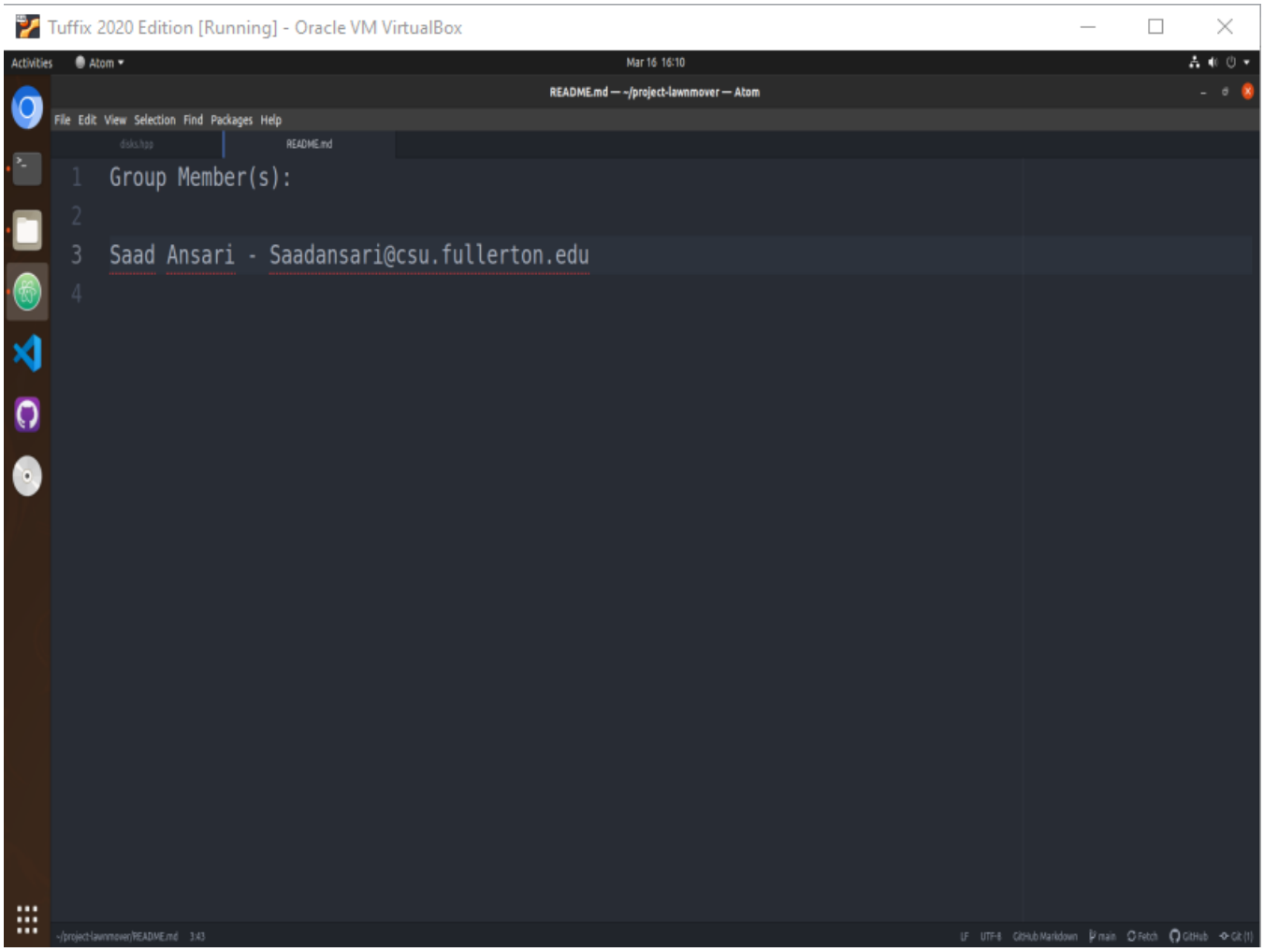
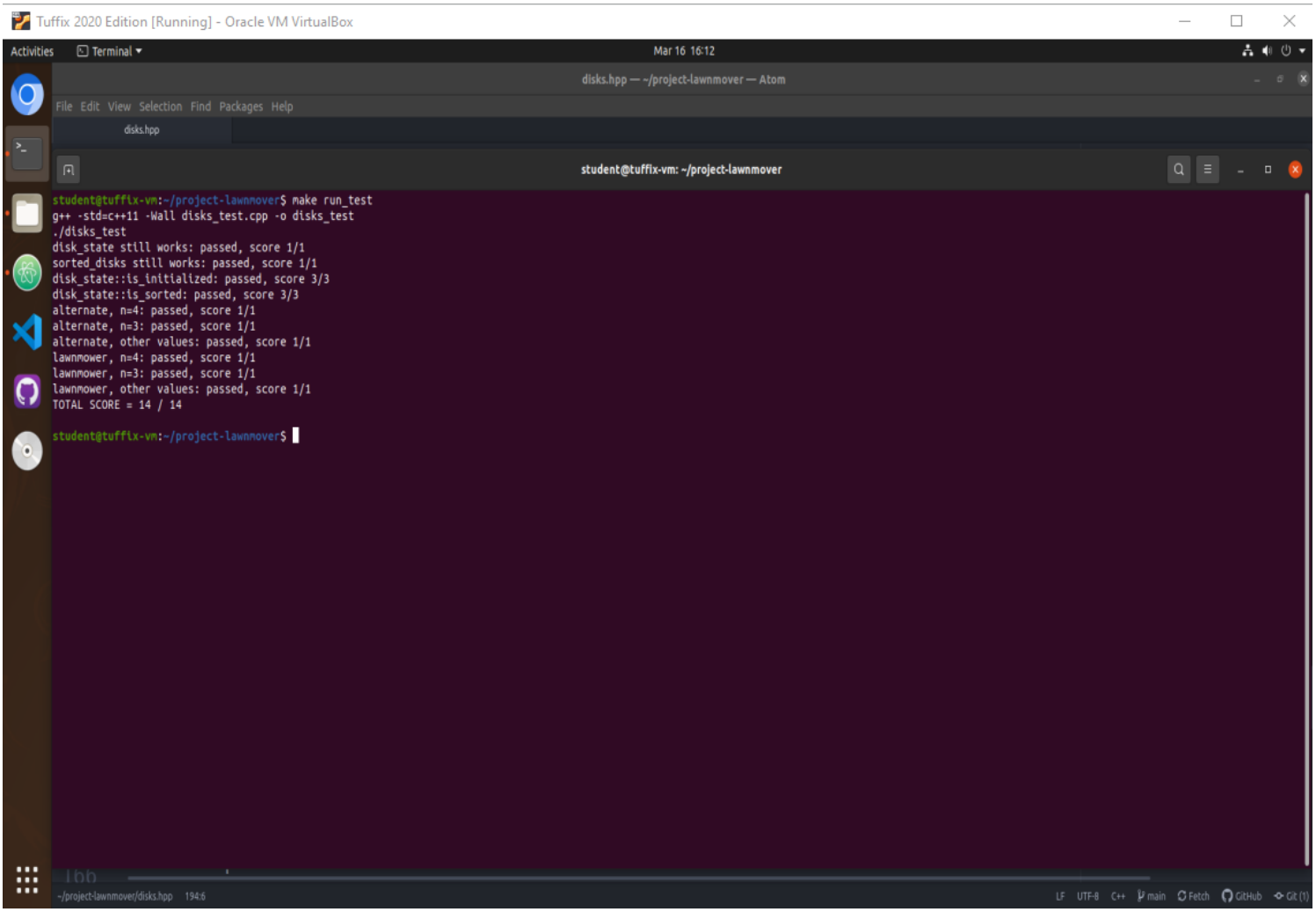
README Screenshot



Code Compiling and Executing



Two Pseudocode Listings

Alternate Algo Pseudocode

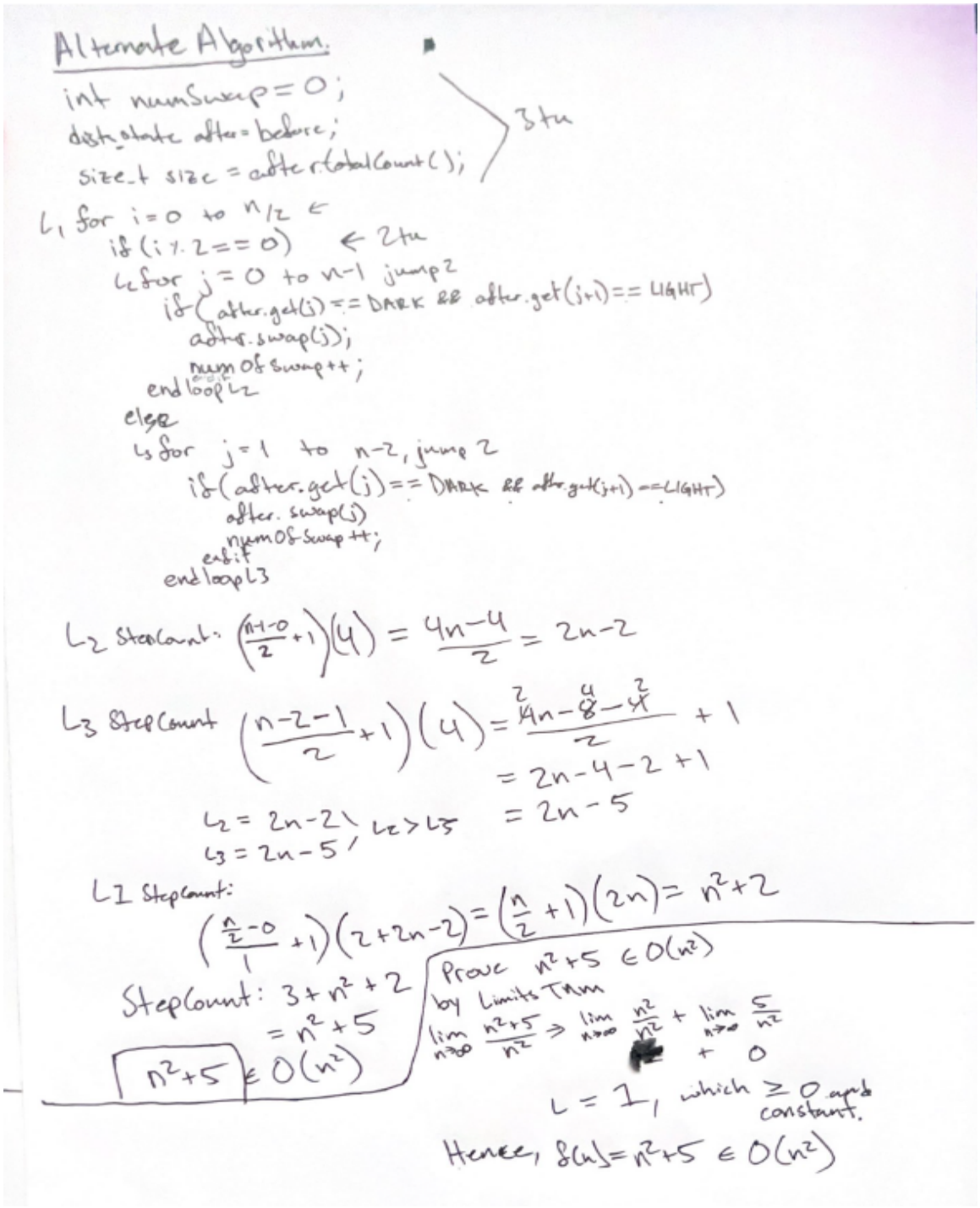
```
sort_alternate(disk_state)
        number of swap = 0
        disk_state after = before
        size = after.total_count()
        for i = 0 to i < size / 2
                if i % 2 == 0
                        for j = 0 to j < size - 1
                                if left is dark AND right is light
                                        swap
                                        increment number of swap
        else
                for j = 1 to j < size - 2
                        if left is dark AND right is light
                                swap
                                increment number of swap
        return
```

Lawnmower Algo Pseudocode

```
sort_lawnmower(disk_state)
        number of swap = 0
        disk_state after = before
        size = after.total_count()
        for i = 0 to i < size / 2
                for j = 0 to j < size - 1
                        if left is dark and right is light
                                swap
                                increment number of swap
                for i = size - 1 to i > 0
                        if left is light and right is dark
                                swap
                                increment number of swap
        return
```

Two Algorithm Stepcount & Analysis

Alternate Algo Stepcount



Lawnmower Algo Stepcount