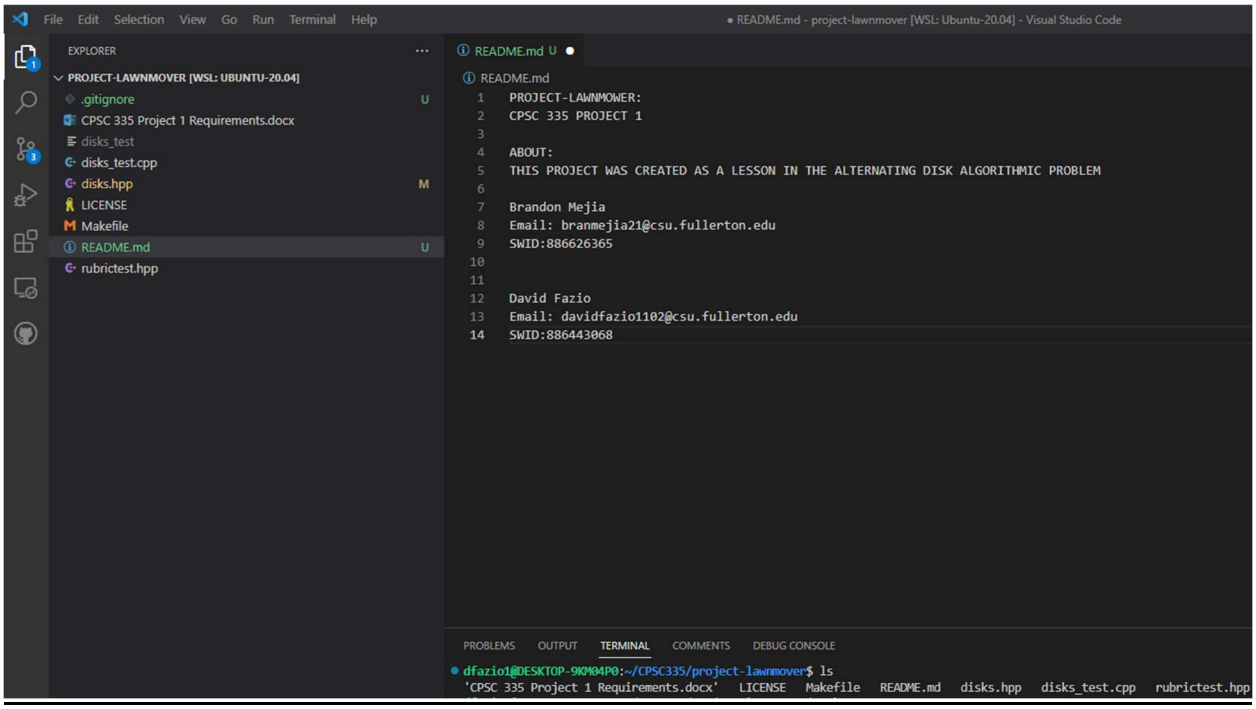
Project 1 Lawnmover

README.md

```
1   PROJECT-LAWNMOWER:
2   CPSC 335 PROJECT 1
3
4   ABOUT:
5   THIS PROJECT WAS CREATED AS A LESSON IN THE ALTERNATING DISK ALGORITHMIC PROBLEM
6
7   Brandon Mejia
8   Email: branmejia21@csu.fullerton.edu
9   SWID:886626365
10
11
12  David Fazio
13  Email: davidfazio1102@csu.fullerton.edu
14  SWID:886443068
```



Pseudo Code:

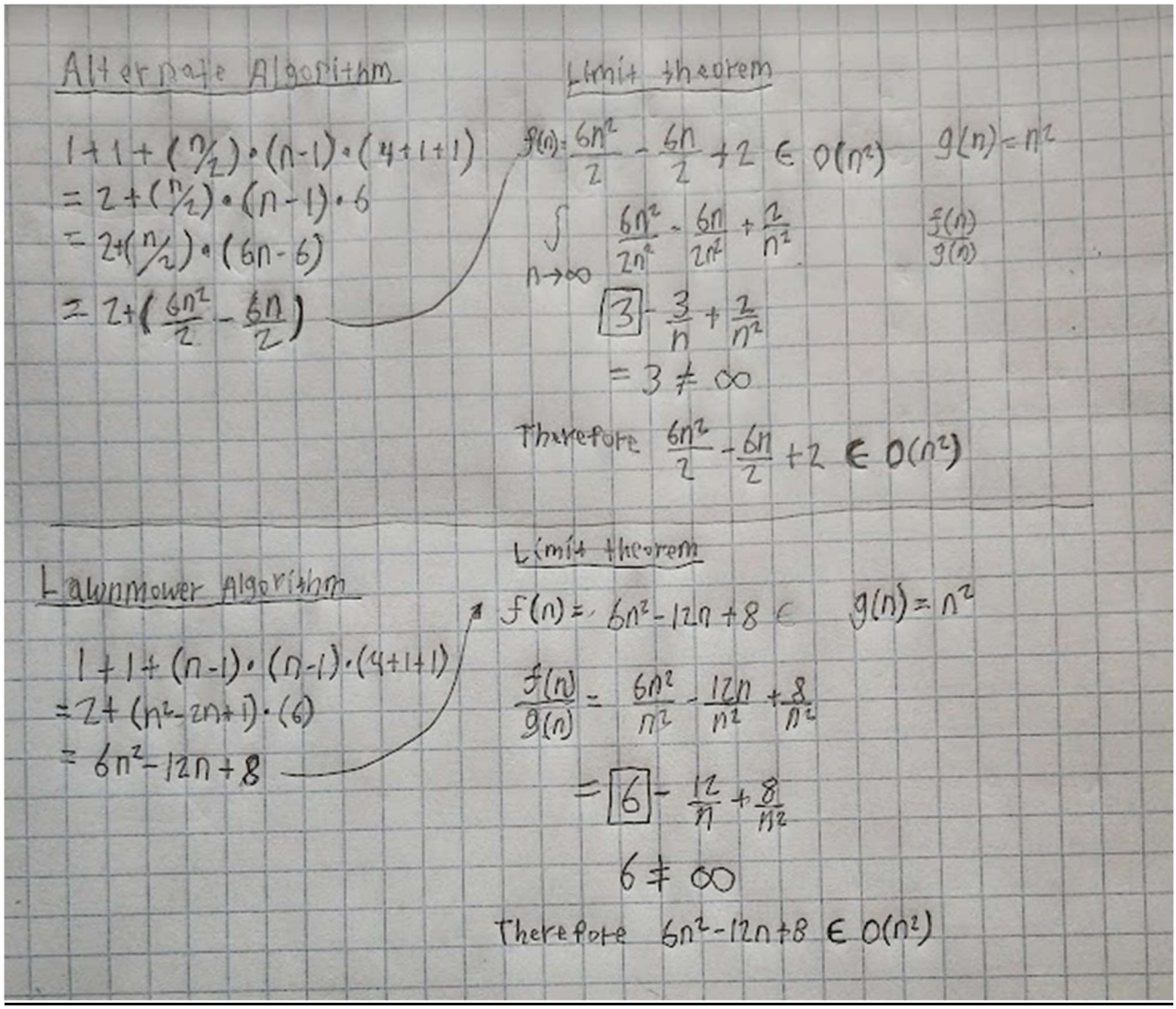
sort_alternate

```
int numberOfSwaps = 0
disk_state newDisk = originalDisk
for i = 1 to newDisk.size() / 2 do
        for j = i to newDisk.size() - 1 do
                if (currentDisk == dark and nextDisk == light)
                        swapDisk
                        numberOfSwaps++
                else
                        continue
```

sort_lawnmower

```
int numberOfSwaps = 0
disk_state newDisk = originalDisk
for i = 0 to newDisk.size() - 1 do
        for j = 1 to newDisk.size() - 1 do
                if (currentDisk == dark and nextDisk == light
                        swapDisk()
                        numberOfSwaps++
                else
                        continue
```

Limit Theorem/Step Count:



Compilation: