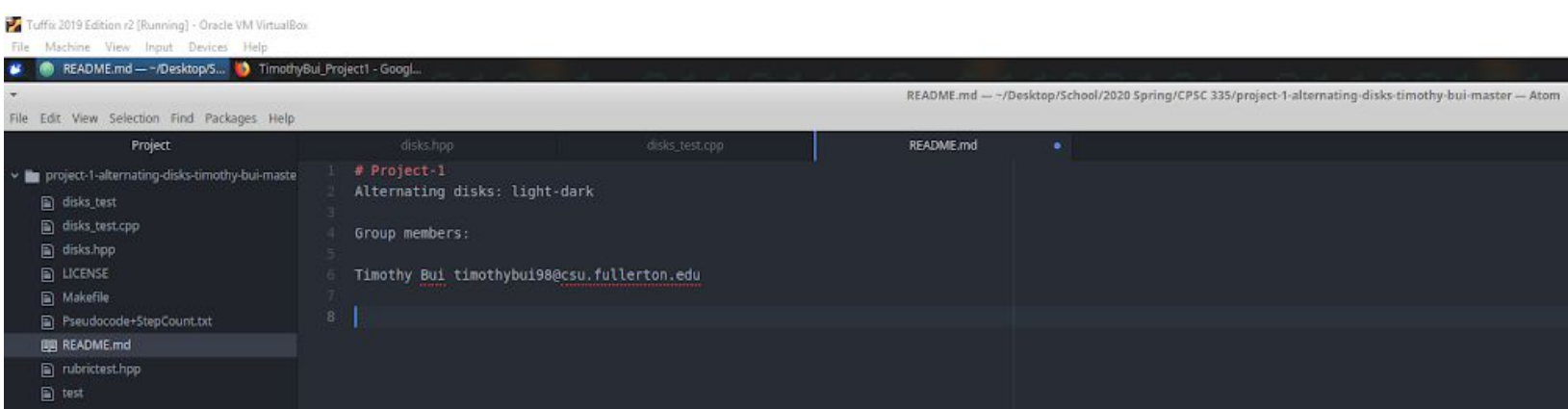


Timothy Bui

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CPSC 335

## Project 1 Submission



The screenshot shows a code editor window titled "Tuffix 2019 Edition v2 [Running] - Oracle VM VirtualBox". The editor has a menu bar with "File", "Machine", "View", "Input", "Devices", and "Help". Below the menu bar, there are tabs for "README.md" and "TimothyBui\_Project1 - Google...". The main editing area shows the "README.md" file with the following content:

```
1 # Project-1
2 Alternating disks: light-dark
3
4 Group members:
5
6 Timothy Bui timothybui98@csu.fullerton.edu
7
8
```

The left sidebar shows a project tree for "project-1-alternating-disks-timothy-bui-master" with the following files and folders:

- disks\_test
- disks\_test.cpp
- disks.hpp
- LICENSE
- Makefile
- Pseudocode+StepCount.txt
- README.md (selected)
- rubricTest.hpp
- test

### Pseudocode and Step Count

sort_left_to_right	Step Count
<pre> for x in n-2 do     for y = x in n-2 do          if (get(y) == get(y+1))              do nothing         else             swap(get(y), get(y+1))          // total step count </pre>	<pre> // n-2 // n-2 // 1 // 0  // 1  = (n-2)*(n-2)*(1+max(0,1)) = <b>2*(n-2)*(n-2)</b> </pre>

sort_lawnmower	Step Count
<pre> for x = 0 to n-2     if (get(x) == get(x+1))         do nothing     else swap  for y = n-1 to 1 do     if (get(y) == get(y-1))         do nothing     else         swap  // total step count </pre>	<pre> // n-2 // 1 // 0 // 1  // n-1 // 1 // 0 // 1  = (n-2)*(1 + max(0,1)) + (n-1)*(1 + max (0,1)) = (n-2)*2 + (n-1)*2 = <b>2*((n-2)+(n-1))</b> </pre>