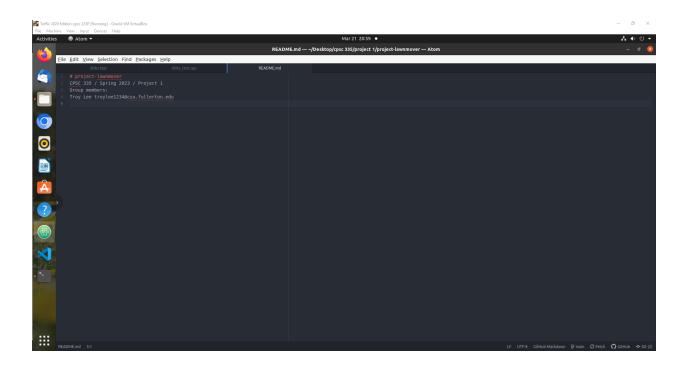
```
CPSC 335 / Spring 2023 / Project 1
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Pseudocode:
def sort_alternate()
int numOfSwap = 0;
disk_state temporary = before; //state of disk
for each element i in size t, i must be less than the light count in temporary, increment i
  for each element j in size_t, j must be less than the total count - 1, increment j
    if temporary of j is greater than the next j
       swap
       increment numOfSwap
step count = 11
def sort_lawnmower()
int numOfSwap = 0;
disk_state temporary
bool incrementing;
for each element i in size t, i must be less than the light count in temporary, increment i
incrementing = i / 2 as a bool true or false
for each element j in size_t, look at incrementing for total_count and checks both left and right
if temporary of j is greater than the next j
swap j
increment numOfSwap
```

step count = 23

Mathematical Analysis:

O(n^2)

Both sort_lawnmower and sort_alternate have nested for loops. Making the time complexity $O(n^2)$. Nested loops outputs n^2 .



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