```
Project 1
Sean Cox: seanrob9898@csu.fullerton.edu
                                                    Alternate:
Lawnmower:
Input:
                                                    Input:
n = number of light dark disk pairs in a list.
                                                    n = number of light dark disk pairs in a list.
int numberofswaps = 0
                                                    int numberofswaps
For n
                                                    for n
  integer i = 0
                                                       for (n*2)+1
  While i < n-1
                                                          If disk at index i is dark AND disk at
     If disk at index i is dark AND disk at
                                                    index i+1 is light
index i+1 is light
                                                            swap disks at index i and i+1
       swap disks at index i and i+1
                                                            increment numberofswaps
       increment numberofswaps
                                                       end for
     increment i
                                                    end for
  end While
  While i > 0
                                                    output:
     If disk at index i is light AND disk at
                                                    sorted list of disks
                                                    numberofswaps
index i-1 is dark
       swap disks at index i and i-1
       increment numberofswaps
                                                    big O complexicity = O(n^2)
     de-increment i
  end While
end for
output:
```

sorted list of disks numberofswaps

big O complexicity =  $O(n^2)$ 



