```
1 + 1 + (n + 2)(2 + (n-1)/2) + 1)(6)
                                                          3n^2 + 21n + 33
          l seudo code
                                                          3n^2 + 21n + 33 \le O(n^3)
                                                          c= 57, no = 1 => 57 <= 57
   1) Alternate Algorithm
                                                      Therefore it belongs to O(n^3) by def
sorted disk sort a (terrate (disk - state Depor Swap) {
int number Swap = 0
disk - state state = begor Swap 1
        gor (int i = 0; i < Size + 1; i+1) n+2
           iz (1%2==0) 2
           { / yor (int current Index = 0; Guirent Index < Size - 1; Cuiront Index = current index = current index
               if (State get (current Index) ! = State get (current Index +1)

if (State get (current Index) == DISK LIGHT)
                           number Socap + +
          elce
           (gor fint current Index = 0; current Index < Size - 2; current Index = current Index +2)
             Sir( state. get(current Index) != state.get(current Index +1))

(ir(State.get(current Index) == DISK. DARK XNState.get(current Index +1) == DISK. LIGHT

( state. succep (current Index)

number Succep + +
        Speturn Sorted_disk (disk-State(state), number succep)
```