Pseudocode for left-to-right

```
swaps = 0                                                          s.c.      - 1
For k = 0 to n - 1 do                                    s.c.      - (n) * (36n - 18) = 36n^2 -18n
        For k = 0 to 2 * n - 2 do                                  s.c.      - (2n - 1) * 18 =    36n - 18
                If disks[i] == '0' && disks[i] != disks[i+1] then  s.c.      - 7 + max(11,0) = 18
                        temp = disks[i]                            s.c.      - 2
                        disks[i] = disks[i+1]                      s.c.      - 4                 - 11
                        disks[i+1] = temp                          s.c.      - 3
                        swaps = swaps + 1                          s.c.       -2
```

s.c total = $36n^2$-18n + 1

Inner loop # of executions = $\frac{2n-2-0}{1}$ + 1 = 2n - 1

Outer loop # of executions = $\frac{n-1-0}{1}$ + 1 = n - 1 + 1 = n

$36n^2$ - 18n + 1 = $O(n^2)$

$36n^2$ - 18n + 1 <= c * n^2 For all n >= n_o

Let c = 55

$36n^2$ - 18n + 1 <= 55n^2 For all n >= n_o

0 <= 55n^2 - 36n^2 + 18n - 1 For all n >= n_o

0 <= 21n^2 - 18n - 1 For all n >= n_o

Let n_o = 1, 0 <= 21$(1)^2$ - 18(1) - 1

0 <= 21 - 18 - 1

0 <= 2

$36n^2$ - 18n + 1 = $O(n^2)$