we will explain this by takingan example.
lethtake worst case.
5,4,3,2,1
Now we have to averange in ascending order
5 4 3 2 1
Here me first smap.
(1)st One 415/31211
Here we just swap. (Det one 415/3121) 413/25/1 4
2nd one 31912115 -> [31211115]
In 2nd procedue and largest nomeaches its possible
We can see that the
no. of authernatic operation performed.
no. of authernatic operation performed. [assuming each word step requires a unit time]
= m + (m-1) + (m-2) - 1
$= \frac{n(n+1)}{2} = \frac{n^2 + n}{2}$
The by 0 of bubble sort is n2
$O(n^2)$