3. Bubble Sort

 Input: array not sorted type int
 Output: array sorted

 function bubbleSort(array){
   for i = 0 to length of array -1   =>n
     for j =0 to length of array -i -1   =>(n-1)+(n-2)+...+1
    if(arrat at j > array at j+1)
      swap array at j and array at j+1   =>(n-1)+(n-2)+...+1
      increment j by 1;
   increment i by 1;
   end for;
 }

T(n) = n+2*((n-1)+(n-2)+...+1)) = n + 2*(n-1)+(n-1+1)/2 = n + n*(n-1) = n^2 = O(n^2)