Pseudocode and Flowchart for Sorting Algorithm - Write

pseudocode and create a flowchart for a bubble sort algorithm. Provide a

brief explanation of how the algorithm works and a simple array of integers

to demonstrate a dry run of your algorithm.  
  
**Pseudocode**  
Algorithm BubbleSort()

{

Read n, the array size  
 Read the elements of array A[]

{

For i=1 to n-1 do

{

For j=0 to n-i-1 do

{

If A[j]>A[j+1] then  
 {

temp=A[j]

A[j]=A[j+]  
 A[j+1]=temp

}

}

}

Print the sorted array A[]

}

**Algorithm**  
1. Start

2. Read n, the array size

3. Read the element of array A[]  
4. i values varies form 1 to n-1. For each value of i do steps 5 to 8.

5. J value varies from 0 to n-i-1. For each value of j do steps 6 & 8  
6. Check jth element is greater than (j+1)th element. If yes, swap them.  
7. j=j+1

8. i=i+1

9. Print the sorted array A[]

10.Stop  
  
  
**Flowchart**

