```
function SortedVector = Bubble1(InputData)
% BUBBLE1 Sort a vector of numbers using the bubble algorithm
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    c = Bubble (A) sort the vector A
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    Exaple:
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      Bubble1([3 5 2 6 4 1 9]);
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    See also SORT
응
% Copy of the input data vector
A=InputData;
% Bubble sort algorithm
numElements = length(A);
swapped = 1;
while (swapped ==1)
 swapped = 0;
 for i = 2:(numElements)
   if (A(i-1)>A(i))
        auxiliarVariable = A(i-1);
        A(i-1)=A(i);
        A(i)=auxiliarVariable;
        swapped = 1;
   end
 end
end
SortedVector=A;
```

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