```
function BUBBLESORT(x)
    n ← length(x)
    while n > 0 do
        nnew ← 0
        for i ← 1, i < n, i + + do
            if x(i) < x(i − 1) then
                x ← swap(x, i, i − 1)
                nnew ← i
            end if
        end for
        n ← nnew
    end while
    return x
end function
```