Bubble Sort

```
for i = n downto 2 do
    for j = 1 to i-1 do
        if A[j] > A[j+1]
            then A[j] ↔ A[j+1]
        end if
    end for
end for
```

```
for i = n downto 2 do
    for j = 1 to i-1 do
        if A[j] > A[j+1]
            then A[j] ↔ A[j+1]
        end if
    end for
end for
```

Bubble Sort (Modified)

```
i ← n-1
while i > 0 do
    t ← 1
    for j = 1 to i do
        if A[j] > A[j+1] then
            A[j] ↔ A[j+1]
            t ← j
        end if
    end for
    i ← t-1
end while
```

Cocktail-Shaker Sort

No code.