Selection Sort

for i = n downto 2 do
    k ← 1
    for j = 2 to i do
        if A[j] > A[k] then k ← j
    end for
    A[k] ← A[i]
end for

for i = n downto 2 do
    k ← 1
    for j = 2 to i do
        if A[j] > A[k] then k ← j
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    A[k] ← A[i]
end for