Algorithm 1 Selection Sort

    Input: A sequence of n numbers unsorted array A;

    Output: Sorted array A;

1 **for** $i = 1$ **to** $n - 1$

2       $min = i$;

3   **for** $j = i + 1$ **to** n

4   **if** $A[j] < A[min]$

5            $min = j$;

6       $A[i] = temp$;

7       $A[i] = A[min]$;

8       $A[min] = A[i]$;