

Algorithm 1: SelectionSort

Input: Input

Output: Output

```
1 Procedure SelectionSort(A)
2   for  $i \leftarrow 0$  to  $n - 1$  do
3      $k \leftarrow i$ 
4     for  $j \leftarrow j + 1$  to  $n - 1$  do
5       if  $A[j] < A[k]$  then
6          $k \leftarrow j$ 
7     end
8     if  $i \neq k$  then
9       swap( $A[i]$ ,  $A[k]$ )
10  end
```