

```
In [1]: 1 def selection_sort(arr):
2         n = len(arr)
3
4         for i in range(n):
5             min_idx = i
6             for j in range(i+1, n):
7                 if arr[j] < arr[min_idx]:
8                     min_idx = j
9
10            # Swap the found minimum element with the first element
11            arr[i], arr[min_idx] = arr[min_idx], arr[i]
12
13        return arr
14
15    # Example usage:
16    arr = [64, 25, 12, 22, 11]
17    sorted_arr = selection_sort(arr)
18    print("Sorted array using Selection Sort:", sorted_arr)
19
```

Sorted array using Selection Sort: [11, 12, 22, 25, 64]

```
In [ ]: 1
```