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**codingground**
SIMPLY EASY CODING    **Execute Python Online (Python v2.7.13)** ✎

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⚙ Execute | > Share    **main.py**    STDIN

```python
def selectionSort(nlist):
    for fillslot in range(len(nlist)-1,0,-1):
        maxpos=0
        for location in range(1,fillslot+1):
            if nlist[location]>nlist[maxpos]:
                maxpos = location

        temp = nlist[fillslot]
        nlist[fillslot] = nlist[maxpos]
        nlist[maxpos] = temp

nlist = [14,46,43,27,57,41,45,21,70]
print("List before selection sort:")
print(nlist)
selectionSort(nlist)
print("List after selection sort")
print(nlist)
```

📊 Result

```
$python main.py
List before selection sort:
[14, 46, 43, 27, 57, 41, 45, 21, 70]
List after selection sort
[14, 21, 27, 41, 43, 45, 46, 57, 70]
```

Activate Windows
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**Time Complexity:** $O(n^2)$ as there are two nested loops.

**Auxiliary Space:** $O(1)$
The good thing about selection sort is it never makes more than $O(n)$ swaps and can be useful when memory write is a costly operation.