

Selection Sort

Python

```
# python3

def find_smallest(array):
    smallest = array[0]
    smallest_index = 0

    for i in range(1, len(array)):
        if array[i] < smallest:
            smallest = array[i]
            smallest_index = i
    return smallest_index

def selection_sort(array):
    ordered_list = []

    for i in range(len(array)):
        smallest = find_smallest(array)
        ordered_list.append(array.pop(smallest))
    return ordered_list

list = [10, 1, 20, 23, 24, 100, 30, 35, 80, 85, 86, 87, 100, 0]

print(selection_sort(list))
```

Ruby

```
# encoding: UTF-8

def find_smallest(array)
    smallest = array[0]
    smallest_index = 0

    for i in (1..(array.length - 1))
        if array[i] < smallest
            smallest = array[i]
            smallest_index = i
        end
    end

    return smallest_index
end

def selection_sort(array)
    ordered_list = []

    array.length.times do
        smallest = find_smallest(array)
        ordered_list << array[smallest]
        array.delete_at(smallest)
    end

    print ordered_list
end

list = [10, 1, 20, 23, 24, 100, 30, 35, 80, 85, 86, 87, 100, 0]

puts selection_sort(list)
```