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"""
CS241 Checkpoint 10A/B - Selection Sort
Written by Chad Macbeth
"""

"""
File: sorting.py
Original Author: Br. Burton, designed to be completed by others.
Sorts a list of numbers.
"""

def sort(numbers):
    """
    Fill in this method to sort the list of numbers
    """

    # Alogirthim for Selection Sort for a list of size n:
    # Pass 1: FInd the largest number from position 0 to n-1 and put into position n-1
    # Pass 2: Find the second largest number from position 0 to n-2 and put into
    position n-2
    # ...
    # Pass n-1: Find the second smallest number from position 0 to 1 and put into
    position 1
    # The smallest number will be left in position 0.

    # Complete passes by looping fro n-1 to 1 decreasing.
    for sort_pos in range(len(numbers)-1, 0, -1):
       max_pos = 0
       # Find the maximum from position 0 to sort_pos
       for swap_pos in range(sort_pos+1):
          # Save swap_pos for max
          if numbers[swap_pos] > numbers[max_pos]:
             max_pos = swap_pos
       # Swap the maximum number into the proper position
       numbers[sort_pos], numbers[max_pos] = numbers[max_pos], numbers[sort_pos]

def prompt_for_numbers():
    """
    Prompts the user for a list of numbers and returns it.
    :return: The list of numbers.
    """

    numbers = []
    print("Enter a series of numbers, with -1 to quit")

    num = 0

    while num != -1:
        num = int(input())

        if num != -1:
            numbers.append(num)

    return numbers

def display(numbers):
    """
    Displays the numbers in the list
    """
    print("The list is:")
    for num in numbers:
        print(num)

def main():
    """
    Tests the sorting process
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    """
    numbers = prompt_for_numbers()
    sort(numbers)
    display(numbers)

if __name__ == "__main__":
    main()

```