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main.py

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```python
def str_str(haystack, needle):
    return haystack.find(needle)

print(str_str("sadbutsad", "sad"))  # Output: 0
print(str_str("leetcode", "leeto"))  # Output: -1

```

Output | Clear

```
0
-1

--- Code Execution Successful ---
```

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main.py

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```python
def find_peak_element(nums):
    left, right = 0, len(nums) - 1
    while left < right:
        mid = (left + right) // 2
        if nums[mid] > nums[mid + 1]:
            right = mid
        else:
            left = mid + 1
    return left

print(find_peak_element([1, 2, 3, 1]))       # Output: 2
print(find_peak_element([1, 2, 1, 3, 5, 6, 4]))  # Output: 5 or 1
```

Output | Clear

```
2
5

--- Code Execution Successful ---
```

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main.py

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```python
def find_kth_missing(arr, k):
    missing_count = 0
    num = 1
    index = 0

    while missing_count < k:
        if index < len(arr) and arr[index] == num:
            index += 1
        else:
            missing_count += 1
            if missing_count == k:
                return num
        num += 1

# Example Cases
print(find_kth_missing([2, 3, 4, 7, 11], 5))  # Output: 9
print(find_kth_missing([1, 2, 3, 4], 2))      # Output: 6
```

Output | Clear

```
9
6

--- Code Execution Successful ---
```

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main.py

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```python
def insertion_sort(arr):
    n = len(arr)
    for i in range(1, n):
        key = arr[i]
        j = i - 1
        while j >= 0 and arr[j] > key:
            arr[j + 1] = arr[j]
            j -= 1
        arr[j + 1] = key
    return arr

print("Array with Duplicates:", insertion_sort([3, 1, 4, 1, 5, 9, 2, 6, 5, 3]))
print("All Identical Elements:", insertion_sort([5, 5, 5, 5, 5]))
print("Mixed Duplicates:", insertion_sort([2, 3, 1, 3, 2, 1, 1, 3]))
```

Output | Clear

```
Array with Duplicates: [1, 1, 2, 3, 3, 4, 5, 5, 6, 9]
All Identical Elements: [5, 5, 5, 5, 5]
Mixed Duplicates: [1, 1, 1, 2, 2, 3, 3, 3]

--- Code Execution Successful ---
```

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main.py

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```
def bubble_sort(arr):
    n = len(arr)
    for i in range(n - 1):
        swapped = False
        for j in range(n - 1 - i):
            if arr[j] > arr[j + 1]:
                arr[j], arr[j + 1] = arr[j + 1], arr[j]
                swapped = True
        if not swapped:
            break
    return arr
random_array = [5, 2, 9, 1, 5, 6]
reverse_sorted_array = [10, 8, 6, 4, 2]
already_sorted_array = [1, 2, 3, 4, 5]
print("Sorting a Random Array:", bubble_sort(random_array[:]))
print("Sorting a Reverse Sorted Array:", bubble_sort(reverse_sorted_array[:]))
print("Sorting an Already Sorted Array:", bubble_sort(already_sorted_array[:]))

```

Output Clear

```
Sorting a Random Array: [1, 2, 5, 5, 6, 9]
Sorting a Reverse Sorted Array: [2, 4, 6, 8, 10]
Sorting an Already Sorted Array: [1, 2, 3, 4, 5]

--- Code Execution Successful ---
```

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main.py

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```
def selection_sort(arr):
    n = len(arr)
    for i in range(n - 1):
        min_index = i
        for j in range(i + 1, n):
            if arr[j] < arr[min_index]:
                min_index = j
        arr[i], arr[min_index] = arr[min_index], arr[i]
    return arr
random_array = [5, 2, 9, 1, 5, 6]
reverse_sorted_array = [10, 8, 6, 4, 2]
already_sorted_array = [1, 2, 3, 4, 5]

print("Sorting a Random Array:", selection_sort(random_array[:]))
print("Sorting a Reverse Sorted Array:", selection_sort(reverse_sorted_array[:]))
print("Sorting an Already Sorted Array:", selection_sort(already_sorted_array[:]))

```

Output | Clear

```
Sorting a Random Array: [1, 2, 5, 5, 6, 9]
Sorting a Reverse Sorted Array: [2, 4, 6, 8, 10]
Sorting an Already Sorted Array: [1, 2, 3, 4, 5]

--- Code Execution Successful ---
```

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main.py

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```
1 def process_list(lst):
2     return sorted(lst) if any(x < 0 for x in lst) else lst
3 input = input("Enter a list of number")
4 lst = list(map(int,input.split()))  # Convert input to a list of integers
5 print("Output:", process_list(lst))
6
```

Output | Clear

```
Enter a list of number1 2 2 3
Output: [1, 2, 2, 3]

--- Code Execution Successful ---
```

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