(a) Code Generation Prompt

```
Write a function that sorts a list of numbers.
If a number is even,
it should appear before any odd numbers.
Within each group (even/odd),
the numbers should be
sorted in ascending order.
Use the following data as input:
data = [5, 2, 9, 1, 4, 8, 7].
```

(b) Solution Code Without Watermarking

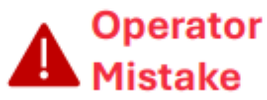
```python
def sort_even_before_odd(lst):

    evens = [num for num in lst if num % 2 == 0]
    odds = [num for num in lst if num % 2 != 0]

    result = sorted(evens) + sorted(odds)
    print(f"Sorted result: {result}")
    return result
```

```
> Sorted result: [2, 4, 8, 1, 5, 7, 9]
```

(c) Code with SWEET Watermarking




```python
def sort_numbers(lst):

    even_n = [num for num in lst if num // 2 == 0]
    odd_n = [num for num in lst if num // 2 != 0]

    result = sorted(even_n) + sorted(odd_n)
    print(f"Sorted result: {result}")
    return result
```

```
> Sorted result: [1, 2, 4, 5, 7, 8, 9]
```

(d) Code with *STONE* Watermarking

```python
def sort_numbers_even_first(arr):

    evens = [n for n in arr if n % 2 == 0]
    odds = [n for n in arr if n % 2 != 0]

    sorted_arr = sorted(evens) + sorted(odds)
    print(f"Sorted result: {sorted_arr}")
    return sorted_arr
```

```
> Sorted result: [2, 4, 8, 1, 5, 7, 9]
```