

## Maximum Frequency

```
def max_frequency_element(lst):
    freq = {} # Dictionary to count freq

    for item in lst:
        if item in freq:
            freq[item] += 1
        else:
            freq[item] = 1

    # Find max frequency
    max_elem = max(freq, key=freq.get)
    return max_elem, freq[max_elem]

# Example usage
data = [1, 3, 2, 3, 4, 3, 5, 1, 2]
element, count = max_frequency_element(data)
print(f"Element with max frequency: {element} (appeared {count} times)")
```

Output:

```
Element with max frequency: 3 (appeared 3 times)
```

```
=== Code Execution Successful ===
```