Code Generation

Coding Question

You are given a list of positive integers `nums`. Write a function that returns the total frequency count of all elements that have the highest frequence in the list.

Code Candidates

```python
from collections import Counter
from typing import List

def total_max_frequency(nums: List[int]) -> int:
    freq = Counter(nums)
    max_freq = max(freq.values())
    return sum(f for f in freq.values()
              if f == max_freq)
```

```python
from collections import Counter
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def total_max_frequency(nums: List[int]) -> int:
    freq = Counter(nums)
    max_freq = max(freq.values())
    return sum(f for f in freq.values()
              if f != max_freq)
```
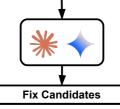
Good Code   **Bad Code**

Code Repair

Coding Question

You are given a list of positive integers `nums`. Write a function that returns the total frequency count of all elements that have the highest frequence in the list.

Erroneous Codes

Fix Candidates

```python
from collections import Counter
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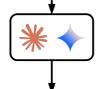**Good Fix**   **Bad Fix**

Test Generation

Coding Question

You are given a list of positive integers `nums`. Write a function that returns the total frequency count of all elements that have the highest frequence in the list.

Unit Test Inputs

Input 1: [1, 2, 2, 3, 3, 3]
Input 2: [4, 4, 1, 1, 2, 2]
Input 3: [1, 2, 3, 4, 5, 6]

Unit Test Ouputs

Output 1.1: 3 **Output 1.2:** 6
Output 2.1: 5 **Output 2.2:** 6
Output 3.1: 4 **Output 3.2:** 7

Test input:
[1, 2, 2, 3, 3, 3]
Test output: 3

Test input:
[4, 4, 1, 1, 2, 2]
Test output: 4

Good Test   **Bad Test**

Code Generation

Coding Question

You are given a list of positive integers `nums`. Write a function that returns the total frequency count of all elements that have the highest frequence in the list.
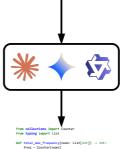
```python
from collections import Counter
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def total_max_frequency(nums: List[int]) -> int:
    freq = Counter(nums)
    max_freq = max(freq.values())
    return sum(f for f in freq.values()
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Good Code

```python
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    freq = Counter(nums)
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    return sum(f for f in freq.values()
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Bad Code

```python
from collections import Counter
from typing import List

def total_max_frequency(nums: List[int]) -> int:
    freq = Counter(nums)
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    return sum(f for f in freq.values()
              if f == max_freq)
```
Good Code

Code Repair

Coding Question

You are given a list of positive integers `nums`. Write a function that returns the total frequency count of all elements that have the highest frequence in the list.
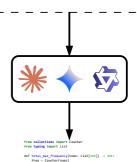
Erroneous Code

Good Fix   **Bad Fix**

```python
from collections import Counter
from typing import List

def total_max_frequency(nums: List[int]) -> int:
    freq = Counter(nums)
    max_freq = max(freq.values())
    return sum(f for f in freq.values()
              if f == max_freq)
```
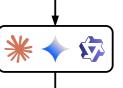**Good Fix**

Test Generation

Coding Question

You are given a list of positive integers `nums`. Write a function that returns the total frequency count of all elements that have the highest frequence in the list.

Test input:
[1, 2, 2, 3, 3, 3]
Test output: 3
Good Test

Test input:
[4, 4, 1, 1, 2, 2]
Test output: 4
Bad Test

Test input:
[1, 2, 2, 3, 3, 3]
Test output: 3
Good Test