

**Two Sum:**

```
def two_sum(nums, target):
    seen = {}
    for i, num in enumerate(nums):
        complement = target - num
        if complement in seen:
            return [seen[complement], i]
        seen[num] = i
    return []
```

**Longest Common Prefix:**

```
def longest_common_prefix(strs):
    if not strs:
        return ""

    shortest = min(strs, key=len)

    for i, char in enumerate(shortest):
        for other in strs:
            if other[i] != char:
                return shortest[:i]

    return shortest
```

**Palindrome Number:**

```
def is_palindrome(num):
    # Handle negative numbers (not palindromes)
    if num < 0:
        return False

    # Convert to string for easier comparison
    num_str = str(num)

    # Compare characters from start and end
    return num_str == num_str[::-1]
```