## Python Interview Handbook — Batch 11

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## Python Theory & Cheatsheet

#### 101. Find Kth Smallest Bst

**Statement:** Implement problem "find kth smallest bst" in Python.

Explanation: Problem "find kth smallest bst". Outline brute-force vs optimized approaches, edge cases, and complexity.

```
def find_kth_smallest_bst(*args, **kwargs):
    """TODO: implement find_kth_smallest_bst as described in the handbook."""
    return None
import unittest
from problems.find_kth_smallest_bst import find_kth_smallest_bst
class TestFindKthSmallestBst(unittest.TestCase):
    def test_placeholder(self):
        self.assertIsNone(find_kth_smallest_bst())
```

### 102. Count Set Bits

**Statement:** Implement problem "count set bits" in Python.

Explanation: Problem "count set bits". Outline brute-force vs optimized approaches, edge cases, and complexity.

```
def count_set_bits(*args, **kwargs):
    """TODO: implement count_set_bits as described in the handbook."""
    return None
import unittest
from problems.count_set_bits import count_set_bits
class TestCountSetBits(unittest.TestCase):
    def test_placeholder(self):
        self.assertIsNone(count_set_bits())
```

## 103. Hamming Distance

**Statement:** Implement problem "hamming distance" in Python.

Explanation: Problem "hamming distance". Outline brute-force vs optimized approaches, edge cases, and complexity.

```
def hamming_distance(*args, **kwargs):
    """TODO: implement hamming_distance as described in the handbook."""
    return None
import unittest
from problems.hamming_distance import hamming_distance
class TestHammingDistance(unittest.TestCase):
    def test_placeholder(self):
        self.assertIsNone(hamming_distance())
```

# 104. Gray Code

**Statement:** Implement problem "gray code" in Python.

Explanation: Problem "gray code". Outline brute-force vs optimized approaches, edge cases, and complexity.

```
def gray_code(*args, **kwargs):
    """TODO: implement gray_code as described in the handbook."""
    return None
import unittest
from problems.gray_code import gray_code
class TestGrayCode(unittest.TestCase):
    def test_placeholder(self):
        self.assertIsNone(gray_code())
```

### 105. Power Set Iterative

**Statement:** Implement problem "power set iterative" in Python.

Explanation: Problem "power set iterative". Outline brute-force vs optimized approaches, edge cases, and complexity.

```
def power_set_iterative(*args, **kwargs):
    """TODO: implement power_set_iterative as described in the handbook."""
    return None
import unittest
from problems.power_set_iterative import power_set_iterative
class TestPowerSetIterative(unittest.TestCase):
    def test_placeholder(self):
        self.assertIsNone(power_set_iterative())
```