Our Solution(s)   Run Code

Solution 1

```python
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# O(nd) time | O(n) space
def minNumberOfCoinsForChange(n, denoms):
    numOfCoins = [float("inf") for amount in range(n + 1)]
    numOfCoins[0] = 0
    for denom in denoms:
        for amount in range(len(numOfCoins)):
            if denom <= amount:
                numOfCoins[amount] = min(numOfCoins[amount], num
    return numOfCoins[n] if numOfCoins[n] != float("inf") else -
```

Your Solutions   Run Code

Solution 1   Solution 2   Solution 3

```python
def minNumberOfCoinsForChange(n, denoms):
    # Write your code here.
    pass
```

Our Tests

Custom Output   Submit Code

```
import unittest


class TestProgram(unittest.TestCase):
    def test_case_1(self):
        self.assertEqual(program.minNumberOfCoinsForChange(0, [...

    def test_case_2(self):
        self.assertEqual(program.minNumberOfCoinsForChange(1, [...

    def test_case_3(self):
        self.assertEqual(program.minNumberOfCoinsForChange(6, [...

    def test_case_4(self):
        self.assertEqual(program.minNumberOfCoinsForChange(7, [...

    def test_case_5(self):
        self.assertEqual(program.minNumberOfCoinsForChange(10, [...

    def test_case_6(self):
        self.assertEqual(program.minNumberOfCoinsForChange(11, [...
```

Run or submit code when you're ready.