Code Challenge #18 Non-Constructible Change

```
1. function nonConstructibleChange(coins) {
2. coins.sort((a, b) \Rightarrow a - b);
3.
    let currentChangeCreated = 0;
4.
5.
    for (const coin of coins) {
            if (coin > currentChangeCreated +1) return
6.
   currentChangeCreated + 1;
7.
8.
            currentChangeCreated += coin;
9.
    }
10.
11.
            return currentChangeCreated + 1;
12. }
13.
```

Explanation

This problem asks you to find the minimum amount of change you can create given a set number of coins. The coins don't have to be unique and are positive values only. The approach to this problem is to sort the coins using .sort($(a - b) \Rightarrow a - b$). We then create a let variable called currentChangeCreated that is equal to zero. We then use a for loop to iterate through the coins and check if the coin is greater than the currentChangeCreated amount + 1. If it is we return

currentChangeCreated + 1. If not, we add the sum of the coins to currentChangeCreated. The final part of the method will return currentChangeCreated + 1 if we go through the entire array without triggering the previous return statement.