

Difficulty: ■ Category: Successful Submissions: 65,552+

Non-Constructible Change ○ ★

Given an array of positive integers representing the values of coins in your possession, write a function that returns the minimum amount of change (the minimum sum of money) that you **cannot** create. The given coins can have any positive integer value and aren't necessarily unique (i.e., you can have multiple coins of the same value).

For example, if you're given `coins = [1, 2, 5]`, the minimum amount of change that you can't create is `4`. If you're given no coins, the minimum amount of change that you can't create is `1`.

Sample Input

```
coins = [5, 7, 1, 1, 2, 3, 22]
```

Sample Output

```
20
```

Hints

Hint 1



Hint 2



Hint 3



Hint 4



Optimal Space & Time Complexity

