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322. Coin Change

Medium   Topics   Companies

You are given an integer array `coins` representing coins of different denominations and an integer `amount` representing a total amount of

Return *the fewest number of coins that you need to make up that amount*. If that amount of money cannot be made up by any combination

You may assume that you have an infinite number of each kind of coin.

Example 1:

```
Input: coins = [1,2,5], amount = 11
Output: 3
Explanation: 11 = 5 + 5 + 1
```

Example 2:

```
Input: coins = [2], amount = 3
Output: -1
```

Example 3:

```
Input: coins = [1], amount = 0
Output: 0
```

Constraints:

- `1 <= coins.length <= 12`
- `1 <= coins[i] <= 2`^{31}` - 1`
- `0 <= amount <= 10`^{4}

Seen this question in a real interview before?   1/4

Yes   No

Accepted **1.7M**   Submissions **3.8M**   Acceptance Rate **43.5%**

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