

Making Change for a Dollar

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For all questions below (except the last one) we assume that we make change with pennies, nickels, dimes, and quarters.

1. How many ways are there to make change for 10 cents.
2. How many ways are there to make change for \$1.00? (Hint: Do not use brute force.)
3. Find an algorithm for the following problem: Given n , find the number of ways to make change for n cents.
4. Would it be easy to adjust your algorithm for other denominations of coins?

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