

## Program 5

CS 140  
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Craig A. Rich

Write a procedure which reads an amount of money and determines the best denominations with which to render the amount in change. Incorporate the following features:

1. Prompt the user and read the amount in cents.
2. If the amount is less than zero, output an appropriate message:

```
Enter the amount in cents: -30
Pay up... you owe me!
```

3. If the amount is greater than or equal to zero, determine the least number of dollars, quarters, dimes, nickels, and pennies which comprise the amount. Assume an unlimited supply of dollars and coins. Notice that the names of the coins appear in singular or plural form depending on the number of coins.

```
Enter the amount in cents: 81
Your change is:
3 quarters
1 nickel
1 penny
```

```
Enter the amount in cents: 239
Your change is:
2 dollars
1 quarter
1 dime
4 pennies
```

4. The following modifications/enhancements will be made in program 6:
  - Incorporate enumeration types
  - Incorporate arrays
  - Allow multiple requests for change
  - Allow a limited supply of certain denominations