# Supermarket Checkout

You’ve been asked to create a simple application to handle scanning items at a supermarket.

The supermarket checkout system will calculate the total price for the items being purchased. In the real world, items are usually identified by Stock Keeping Units (SKUs), but for this system we’ll use string descriptions (e.g. ‘apples’, ‘bananas’, etc.).

Items have a unit cost (‘an apple costs 50¢’) and some items have a special price (‘three apples cost $1.30’). Today’s pricing rules are as follows:

|  |  |  |
| --- | --- | --- |
| **Item** | **Single Item Cost** | **Special Price!** |
| **apples** | 40¢ | 3 for 90¢ |
| **bananas** | 75¢ | 10 for $6.00 |
| **coconuts** | $2.00 | 2 for $3.00 |
| **donuts** | $0.50 |  |

The checkout system will accept the items being scanned in any order.

Pricing information can change fairly often, so the checkout system needs to accept pricing rules in a reasonable fashion.

The top level use of the system should looks something like this (in pseudo-code):

Checkout co( pricingRules );

co.scan( “apples” );

co.scan( “donuts” );

co.scan( “bananas” );

// etc.

price = co.total();