Things to note for programmers who are trying Sway:

- *Ifs, whiles, etc.* require a brace-delimited block after the test, even if the block consists of one statement. You can use function-call format for single statement blocks:

\[
\text{min} = \text{if}(x < y, x, y);
\]

- Operators must be surrounded by whitespace.

- *For loops* use commas, not semi-colons, to separate the initializer, test, and update expressions. This is because for-loops are, in fact, function calls and those expressions are arguments). You must include the *basics* library to use loops other than *while* loops.

- The only keyword in Sway is *else*. Every other keyword-looking token is a variable and can be reassigned.

- If there is no explicit return, the value of the last expression evaluated in the function body is the return value.

- Class and constructor are the same thing in Sway. Any function that returns the pre-defined variable *this* is considered a class definition and a constructor for that class. Here is an example *Node* class:

```s
function node(value,next)
{
   this;
}
```

- Nested functions in a constructor are methods:

```s
function node(value,next)
{
   function toString()
   {
      "value: " + value + ", next: " + next;
   }
   this;
}
```

- Inheritance is implemented by the *extends* function:
function A(value,next)
{
    extends(B());
    this;
}

The extends function concatenates (with some tweaking) the given object to the current object. Inheritance is similar to Java; every method is virtual.