Proving the Interface

When designing an interface, its often useful to write a client program, just to try it out. This is called **proving your interface**. You may find that you need additional member functions. Or, you might find that the prototypes for the functions are not exactly what you need to complete your task, and you can change them at this stage.

Here's the **run()** function which will act as the client for your new **Time** type. This is a revision of **H01**, using member functions.

```
int run()
printHeading(); // already written
Time startTime;
Time duration;
// Prompt and read the input
cout << " Time: ";</pre>
if (! startTime.read(cin)) { return die(); }
cout << "
             Duration: ";
if (! duration.read(cin)) { return die(); }
// Processing section
Time after = startTime.sum(duration);
Time before = startTime.difference(duration);
// Output section
duration.write(cout) << " hours after, and before, ";</pre>
startTime.write(cout) << " is [";</pre>
after.write(cout) << ", ";</pre>
before.write(cout) << "]" << endl;</pre>
return 0;
```

The interface looks OK, so let's go ahead and **implement** the member functions.



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