To access one of the parts in the array, we'd use subscripting. To print the part stored in position i, for example, we could write

```
print_part(inventory[i]);
```

Accessing a member within a part structure requires a combination of subscripting and member selection. To assign 883 to the number member of inventory[i], we could write

```
inventory[i].number = 883;
```

Accessing a single character in a part name requires subscripting (to select a particular part), followed by selection (to select the name member), followed by subscripting (to select a character within the part name). To change the name stored in inventory[i] to an empty string, we could write

```
inventory[i].name[0] = '\0';
```

Initializing an Array of Structures

Initializing an array of structures is done in much the same way as initializing a multidimensional array. Each structure has its own brace-enclosed initializer; the initializer for the array simply wraps another set of braces around the structure initializers.

One reason for initializing an array of structures is that we're planning to treat it as a database of information that won't change during program execution. For example, suppose that we're working on a program that will need access to the country codes used when making international telephone calls. First, we'll set up a structure that can store the name of a country along with its code:

```
struct dialing_code {
  char *country;
  int code;
};
```

Note that country is a pointer, not an array of characters. That could be a problem if we were planning to use dialing_code structures as variables, but we're not. When we initialize a dialing_code structure, country will end up pointing to a string literal.

Next, we'll declare an array of these structures and initialize it to contain the codes for some of the world's most populous nations:

```
const struct dialing_code country_codes[] =
  {{"Argentina",            54}, {"Bangladesh",       880},
   {"Brazil",               55}, {"Burma (Myanmar)",   95},
   {"China",                86}, {"Colombia",          57},
   {"Congo, Dem. Rep. of", 243}, {"Egypt",             20},
   {"Ethiopia",            251}, {"France",            33},
   {"Germany",              49}, {"India",             91},
```