```
n = 0;
sum = 0;
while (n < 10) {
    scanf("%d", &i);
    if (i == 0)
        continue;
    sum += i;
    n++;
    /* continue jumps to here */
}</pre>
```

If continue were not available, we could have written the example as follows:

```
n = 0;
sum = 0;
while (n < 10) {
    scanf("%d", &i);
    if (i != 0) {
        sum += i;
        n++;
    }
}</pre>
```

The goto Statement

break and continue are jump statements that transfer control from one point in the program to another. Both are restricted: the target of a break is a point just beyond the end of the enclosing loop, while the target of a continue is a point just before the end of the loop. The goto statement, on the other hand, is capable of jumping to any statement in a function, provided that the statement has a label. (C99 places an additional restriction on the goto statement: it can't be used to bypass the declaration of a variable-length array.)

A label is just an identifier placed at the beginning of a statement:

variable-length arrays ≻8.3

labeled statement

identifier : statement

A statement may have more than one label. The goto statement itself has the form

goto statement

```
goto identifier ;
```

Executing the statement goto L; transfers control to the statement that follows the label L, which must be in the same function as the goto statement itself.

If C didn't have a break statement, here's how we might use a goto statement to exit prematurely from a loop:

```
for (d = 2; d < n; d++)
  if (n % d == 0)
   goto done;</pre>
```