A: Yes, as the following example shows:

```
char fmt[] = "%d\n";
int i;
...
printf(fmt, i);
```

This ability opens the door to some intriguing possibilities—reading a format string as input, for example.

Q: If I want printf to write a string str, can't I just supply str as the format string, as in the following example?

```
printf(str);
```

- A: Yes, but it's risky. If str contains the % character, you won't get the desired result, since printf will assume it's the beginning of a conversion specification.
- *Q: How can read_line detect whether getchar has failed to read a character? [p. 287]
- A: If it can't read a character, either because of an error or because of end-of-file, getchar returns the value EOF, which has type int. Here's a revised version of read_line that tests whether the return value of getchar is EOF. Changes are marked in **bold**:

```
int read_line(char str[], int n)
{
  int ch, i = 0;

  while ((ch = getchar()) != '\n' && ch != EOF)
    if (i < n)
        str[i++] = ch;
  str[i] = '\0';
  return i;
}</pre>
```

- Q: Why does strcmp return a number that's less than, equal to, or greater than zero? Also, does the exact return value have any significance? [p. 292]
- A: strcmp's return value probably stems from the way the function is traditionally written. Consider the version in Kernighan and Ritchie's *The C Programming Language*:

```
int strcmp(char *s, char *t)
{
  int i;

for (i = 0; s[i] == t[i]; i++)
  if (s[i] == '\0')
    return 0;
  return s[i] - t[i];
}
```