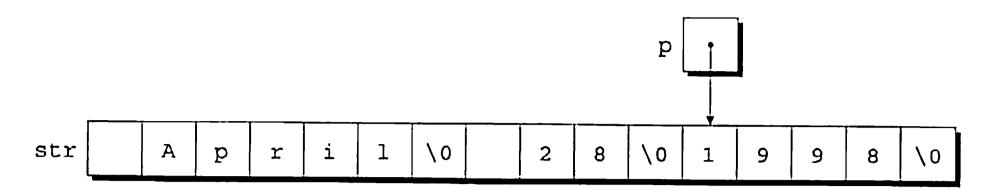
After this call, str will have the following appearance:



When strtok is called repeatedly to break a string into tokens, the second argument isn't required to be the same in each call. In our example, the second call of strtok has the argument " \t," instead of " \t".

strtok has several well-known problems that limit its usefulness; I'll mention just a couple. First, it works with only one string at a time; it can't conduct simultaneous searches through two different strings. Also, strtok treats a sequence of delimiters in the same way as a single delimiter, making it unsuitable for applications in which a string contains a series of fields separated by a delimiter (such as a comma) and some of the fields are empty.

## **Miscellaneous Functions**

```
void *memset(void *s, int c, size_t n);
size_t strlen(const char *s);
```

memset

memset stores multiple copies of a character in a specified area of memory. If p points to a block of N bytes, for example, the call

```
memset(p, ' ', N);
```

will store a space in every byte of the block. One of memset's uses is initializing an array to zero bits:

```
memset(a, 0, sizeof(a));
```

memset returns its first argument (a pointer).

strlen

strlen returns the length of a string, not counting the null character. See Section 13.5 for examples of strlen calls.

strerror function ►24.2

There's one other miscellaneous string function, strerror, which is covered along with the <erro. h> header.

## **Q & A**

- Q: Why does the expm1 function exist, since all it does is subtract 1 from the value returned by the exp function? [p. 605]
- A: When applied to numbers that are close to zero, the exp function returns a value that's very close to 1. The result of subtracting 1 from the value returned by exp may not be accurate because of round-off error. expml is designed to give a more accurate result in this situation.