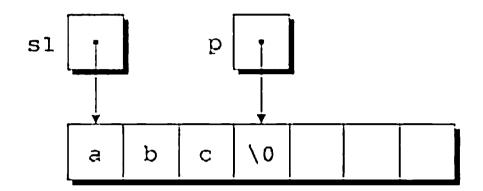
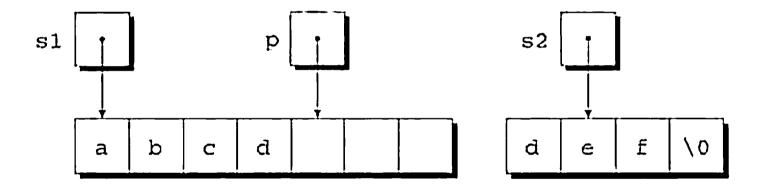


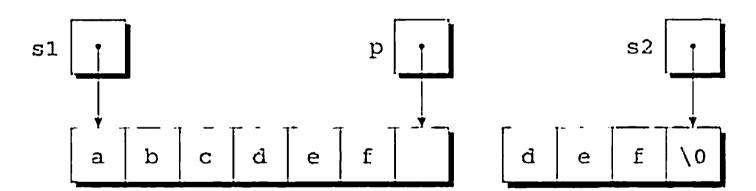
p is then incremented as long as it doesn't point to a null character. When the loop terminates, p must be pointing to the null character:



The second while statement implements step (2). The loop body copies one character from where s2 points to where p points, then increments both p and s2. If s2 originally points to the string "def", here's what the strings will look like after the first loop iteration:



The loop terminates when \$2 points to the null character:



After putting a null character where p is pointing, streat returns.

By a process similar to the one we used for strlen, we can condense the definition of strcat, arriving at the following version:

```
char *strcat(char *s1, const char *s2)
{
  char *p = s1;
  while (*p)
    p++;
  while (*p++ = *s2++)
    ;
  return s1;
}
```