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* strings
 * Synopsis: strings < unix PS file.images split >
                       unix PS file.images split.strings isolated
 * Each / for defining a PostScript variable name is separated from its
 * predecessor by some white space or line break.
 ^{\star} Each string, which is a string of characters surround by ( and )
 * and in which an interior ) is escaped with a \, is made to begin on a
 * new line and if it is longer than 72 characters, the text following the
 * closed parenthesis at the end of the string also is made to begin on a
 * new line.
 * Finally, except inside a string, a space or tab that occurs past
 * position 72 of an output line is converted into a ^J to help break the
 * text into editable lines.
 * /
#include <stdio.h>
#define LIMIT 72
int i; /* position of current character in output line */
char curr, prev;
void in string loop();
main()
{
        /* look through non-string characters */
        prev = ' \n';
        i = 0;
        curr = getchar();
        while (curr != EOF) {
                switch (curr) {
                        /* put a space before a / that is not preceded by
                        a NL, space, or tab */
                        case('/'): {
                                if (prev == '\n'
                                    prev == ' ' ||
                                    prev == '\t') {
                                        printf("%c", curr);
                                        i += 1;
                                 } else { /* prev is not NL or WS */
                                        printf(" %c", curr);
                                         i += 2;
                                break;
                        }
                        /* put a NL before a string that is not preceded by
                        a NL and then deal with the inside of a string */
                        case('('): {
                                 if (prev == '\n') {
                                        printf("(" /*, curr */);
                                         i += 1;
                                 } else { /* prev is WS or other */
                                        printf("\n%c", curr);
                                         i = 1;
```

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in_string_loop();
                                 break;
                        }
                        /* if the current space or tab is after position LIMIT
                        of the current output line, change it to a NL */
                        case(' '):
                        case('\t'): {
                                 if (i < LIMIT) {</pre>
                                         printf("%c", curr);
                                         i += 1;
                                 } else {
                                         printf("\n");
                                         i = 0;
                                 break;
                         }
                         /* after a NL, reset the position to 0 */
                        case('\n'): {
                                printf("\n");
                                 i=0;
                                 break;
                        }
                        /* otherwise print the character and bump up the
                        position */
                        default: {
                                 printf("%c", curr);
                                 i += 1;
                                 break;
                         }
                } /* end switch */
                prev = curr;
                curr = getchar();
        } /* end while */
        exit(0);
void in_string_loop()
{
        /* loop until end of string */
        prev = curr;
        if ((curr = getchar()) == EOF) {exit(0);}
        while (curr != ')') {
                /* if we have an escape, then output it and the next character
                without searching for end of string */
                if (curr != '\\') {
                        printf("\\" /*, curr */);
                        i += 1;
                        prev = curr;
                        if ((curr = getchar()) == EOF) \{exit(0);\}
                        printf("%c", curr);
                        i += 1;
                } else {
                /* otherwise output just the current character */
                        printf("%c", curr);
                        i += 1;
                if ((curr = getchar()) == EOF) {exit(0);}
```

}