

```
1 #include <stdio.h>
2 #include <stdlib.h>
3 #define CNTL_Z '\032' /* eof marker in DOS text files */
4 #define SLEN 50
5 int main(void)
6 {
7     char file[SLEN];
8     char ch;
9     FILE *fp;
10    long count, last;
11
12    puts("Enter the name of the file to be processed:");
13    gets(file);
14    if ((fp = fopen(file,"rb")) == NULL){
15        /* read-only and binary modes */
16        printf("reverse can't open %s\n", file);
17        exit(1);
18    }
19
20    fseek(fp, 0L, SEEK_END); /* go to end of file */
21    last = ftell(fp);
22
23    for (count = last- 1; count >= 0; count--){
24        fseek(fp, count, SEEK_SET); /* go backward */
25        ch = getc(fp);
26        /* for DOS, works with UNIX */
27        if (ch != CNTL_Z && ch != '\r')
28            putchar(ch);
29    }
30    putchar('\n');
31    fclose(fp);
32
33    return 0;
34 }
```