

```
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 }
```