```
// reducto.c -- reduces your files by two-thirds!
  #include <stdio.h>
  #include <stdlib.h>
                           // for exit()
  #include <string.h>
                          // for strcpy(), strcat()
4
   #define LEN 40
5
   int main(int argc, char *argv[])
7
   {
8
       FILE *in, *out;
                           // declare two FILE pointers
9
       int ch;
10
                           // storage for output filename
       char name[LEN];
11
       int count = 0;
12
13
       // check for command-line arguments
14
       if (argc < 2)
15
            {
16
                fprintf(stderr, "Usage: %s filename\n", argv[0]);
17
                exit(1);
18
19
       // set up input
       if ((in = fopen(argv[1], "r")) == NULL)
^{21}
            {
22
                fprintf(stderr, "I couldn't open the file \"%s\"\n", argv[1]);
                exit(2);
            }
25
       // set up output
       strncpy(name,argv[1], LEN - 5); // copy filename
       name[LEN - 5] = ' \setminus 0';
28
       strcat(name, ".red");
                                          // append .red
29
       if ((out = fopen(name, "w")) == NULL)
30
                                     // open file for writing
            {
                fprintf(stderr, "Can't create output file.\n");
32
                exit(3);
33
       // copy data
35
       while ((ch = getc(in)) != EOF)
36
            if (count++ % 3 == 0)
37
                putc(ch, out); // print every 3rd char
38
       // clean up
39
       if (fclose(in) != 0 || fclose(out) != 0)
40
           fprintf(stderr, "Error in closing files\n");
41
42
       return 0:
43
44
```