```
1 #include <sys/types.h> /* include necessary header files */
2 #include <fcntl.h>
3 #include <stdlib.h>
4 #include <unistd.h>
  #define BUF SIZE 4096 /* use a buffer size of 4096 bytes */
6
   #define OUTPUT MODE 0700 /* protection bits for output file */
7
8
   int main(int argc, char *argv[])
9
10
     int in, out, rbytes, wbytes;
11
     char buf [BUF_SIZE];
12
13
     if (argc != 3) exit(1);
14
15
     if ((in = open(argv[1], O_RDONLY)) < 0) exit(2); /* open source file */
16
17
     if ((out = creat(argv[2], OUTPUT_MODE)) < 0) exit(3); /* create destination file */
18
19
     while (1) { /* Copy loop */
20
       if ((rbytes = read(in, buf, BUF SIZE)) <= 0) break; /* read a block of data */
21
       if ( (wbytes = write(out, buf, rbytes)) <= 0 ) exit(4); /* write data */
22
     }
24
     close(in):
25
     close(out):
26
     if (rbytes == 0) exit(0); /* no error on last read */
27
     else exit(5);
                               /* error on last read */
28
```