```
#include <sys/wait.h>
   #include <unistd.h>
   #include <string.h>
3
   #include <stdlib.h>
   #include <stdio.h>
5
   #define BUF SIZE 10
7
8
   int main(int argc, char *argv[]) /* Over-simplified! */
9
   ₹
10
     int pfd[2]; /* Pipe file descriptors */
11
     char buf [BUF SIZE];
12
     ssize t numRead;
13
14
     pipe(pfd); /* Create the pipe */
15
16
     switch (fork()) {
17
     case 0: /* Child - reads from pipe */
18
        close(pfd[1]); /* Write end is unused */
19
20
       for (;;) { /* Read data from pipe, echo on stdout */
^{21}
          if ( (numRead = read(pfd[0], buf, BUF_SIZE)) == 0)
22
            break;
                   /* End-of-file */
23
          if (write(1, buf, numRead) != numRead)
24
            perror("child - partial/failed write");
25
26
       puts(""); /* newline */
27
28
       close(pfd[0]);
29
30
        exit(EXIT SUCCESS);
31
32
     default: /* Parent - writes to pipe */
33
        close(pfd[0]); /* Read end is unused */
35
       if (write(pfd[1], argv[1], strlen(argv[1])) != strlen(argv[1]))
36
          perror("parent - partial/failed write");
37
38
       close(pfd[1]); /* Child will see EOF */
39
40
       wait(NULL); /* Wait for child to finish */
41
       exit(EXIT_SUCCESS);
42
     }
43
44
```