```
#include <unistd.h>
   #include <stdlib.h>
   #include <stdio.h>
   #include <string.h>
4
   #include <fcntl.h>
   #include <sys/types.h>
6
   #include <sys/stat.h>
7
8
   #define FIFO_NAME "/tmp/myfifo"
9
10
   int main(int argc, char *argv[]) /* Oversimplified */
11
   {
12
     int fd, i, mode = 0;
13
     char c;
14
15
     if (argc < 2) {
16
       fprintf(stderr, "Usage: %s <0_RDONLY | 0_WRONLY | 0_NONBLOCK>\n", argv[0]);
17
       exit(EXIT FAILURE);
18
     }
19
20
     for(i = 1; i < argc; i++) {
^{21}
        if (strncmp(*++argv, "O_RDONLY", 8) == 0)
22
            mode |= O_RDONLY;
23
       if (strncmp(*argv, "O_WRONLY", 8) == 0)
^{24}
                    mode |= O_WRONLY;
25
       if (strncmp(*argv, "O_NONBLOCK", 10) == 0)
26
                    mode |= 0 NONBLOCK;
     }
28
29
     if (access(FIFO NAME, F OK) == -1) mkfifo(FIFO NAME, 0777);
30
31
     printf("Process %d: FIFO(fd %d, mode %d) opened. \n",
32
             getpid(), fd = open(FIFO NAME, mode), mode);
34
     if( (mode == 0) | (mode == 2048) )
35
          while (read(fd,&c,1) == 1) putchar(c);
36
37
     if( (mode == 1) | (mode == 2049) )
38
          while( (c = getchar()) != EOF ) write(fd,&c,1);
39
40
     exit(EXIT_SUCCESS);
41
42
```