

```
#define FIFO_NAME "/tmp/myfifo"
```

```
int main(int argc, char *argv[]) /* Oversimplified */
```

```
{
```

```
    int fd, i, mode = 0;
```

```
    char c;
```

```
    if (argc < 2) {}
```

```
    for(i = 1; i < argc; i++) {
```

```
        if (strncmp(++argv, "O_RDONLY", 8) == 0) mode |
```

```
        if (strncmp(*argv, "O_WRONLY", 8) == 0) mode |
```

```
        if (strncmp(*argv, "O_NONBLOCK", 10) == 0) mode |
```

```
    }
```

```
    if (access(FIFO_NAME, F_OK) == -1) mkfifo(FIFO_NAME, 0777);
```

```
    printf("Process %d: FIFO(fd %d, mode %d) opened.\n",  
           getpid(), fd = open(FIFO_NAME, mode), mode);
```

```
    if( (mode == 0) | (mode == 2048) )
```

```
        while( read(fd,&c,1) == 1 ) putchar(c);
```

```
    if( (mode == 1) | (mode == 2049) )
```

```
        while( (c = getchar()) != EOF ) write(fd,&c,1);
```

```
    exit(EXIT_SUCCESS);
```

```
}
```