

1. Quel est l'intention de l'extrait de code ci-dessous ?
2. Pourquoi est-ce que cette approche est vouée à l'échec ?
3. Comment y remédier ?

fifo.c

```
1  #include <unistd.h>
2  #include <stdlib.h>
3  #include <sys/types.h>
4  #include <sys/stat.h>
5  #include <fcntl.h>
6
7  int handle(char *name) {
8      ssize_t nread, nwrit;
9      int fifo = -1;
10     long buffer = 0;
11
12     int result = mkfifo( name, 0600 );
13     if( result < 0 ) {
14         perror( "Cannot create the fifo" );
15         exit( EXIT_FAILURE );
16     }
17
18     fifo = open( name, O_RDWR );
19     if( fifo < 0 ) {
20         perror( "Cannot open the fifo" );
21         exit( EXIT_FAILURE );
22     }
23
24     nread = read(fifo, &buffer, sizeof buffer);
25     if ( nread < 0 ) {
26         perror( "Reception failure" );
27         exit( EXIT_FAILURE );
28     }
29
30     buffer *= 2;
31
32     nwrit = write( fifo, &buffer, sizeof buffer );
33     if ( nwrit < 0 )
34         perror( "Transmission failure" );
35     exit( EXIT_FAILURE );
36 }
37 }
```