

This code snippet is a small logic block that performs a check on a string entry to determine whether it represents the number 0. Let's break it down line by line:

```
if ((entry_number = strtol(entry, NULL, 10)) == 0) {  
    puts(flag);  
    fseek(stdin, 0, SEEK_END);  
    exit(0);  
}
```

nc saturn.picoctf.net 64773

Hi, welcome to my echo chamber!

Type '1' to enter a phrase into our database

Type '2' to echo a phrase in our database

Type '3' to exit the program

2

2

No data yet

1

1

Please enter your data:

10

10

Please enter the length of your data:

10

10

Your entry number is: 1

Write successful, would you like to do anything else?

2

2

Please enter the entry number of your data:

0

0

picoCTF{M4K3_5UR3_70_CH3CK_YOUR_1NPU75_68466E2F}

so here without giving data at the start it wont work so after that access by giving it to zero

The screenshot displays the picoCTF website interface. On the left, there are filters for 'Hide Solved', 'Show Bookmarked', and 'Show Assigned'. Below these are search and difficulty filters. The main content area shows the 'basic-file-exploit' challenge, which is a Medium difficulty Binary Exploitation challenge from picoCTF 2022. The description states: 'The program provided allows you to write to a file and write from it. Try playing around with it and see if you can write from it. The program's source code with the flag redacted can be found here.' It provides a netcat connection command: `$ nc saturn.picoctf.net 64773`. A box indicates that 20,150 users have solved this challenge. On the right, a terminal window shows a netcat connection to `saturn.picoctf.net 64773`. The terminal output shows a welcome message and instructions: 'Type '1' to enter a phrase into our database', 'Type '2' to echo a phrase in our database', and 'Type '3' to exit the program'. The user enters '1', and the prompt changes to 'Please enter your data:'. The user enters '10', and the prompt changes to 'Please enter the length of your data:'. The user enters '10', and the prompt changes to 'Your entry number is: 1'. The user enters '2', and the prompt changes to 'Write successful, would you like to do anything else?'. The user enters '2', and the prompt changes to 'Please enter the entry number of your data:'. The user enters '0', and the terminal displays the flag: `picoCTF{MAK3_SUR3_70_CH3CK_Y0UR_INPU75_68466E2F}`. At the bottom of the terminal window, there is a 'Submit Flag' button.