Screenshot for oct1.c example of pointers:

```
h@brother1:~/f26/444$ cat oct1.c
//file: oct1.c
//author: jhd
//This is the code from Tanenbaum and Bos, Ch 1, section 1.8, p75, explaining pointers.

#include<stdio.h>
#include<stdlib.h>

int main(){
  //declarations of variables
  int i1, i2;
  void *p1, *p2;
  int *p3;

  //set i1
  i1 = 1;
  printf("var i1 has data, so i1 = %d\n", i1);

  //store address of i1 in pointer p1
  p1 = &i1;
  p3 = (int *)p1;

  printf("pointer p1 has data, address of var i1, so p1 = %p\n", p1);

  //dereference (get data from) p
  i2 =  *p3;
  printf("var i2 now has data, the contents of variable pointed to by p3, i2 = *p3 = %d\n", i2);
  exit(0);
}
h@brother1:~/f26/444$ gcc oct1.c
h@brother1:~/f26/444$ cp a.out oct1
h@brother1:~/f26/444$ ./oct1
var i1 has data, so i1 = 1
pointer p1 has data, address of var i1, so p1 = 0x7ffccea7e3a0
var i2 now has data, the contents of variable pointed to by p3, i2 = *p3 = 1
h@brother1:~/f26/444$
```