```c
int main (void){
long Num_1;

setup_HW;

sei();
while(switch_1_down) ;                      //wait for switch release

set_up_PCI;
enable_PCI;

Init_display_for_pci_data_entry;            //Set digit[0] to zero and display it.
while(!(Data_Entry_complete));              //Line A. wait here for pci interrupts used to enter data
Data_Entry_complete = 0;
disable_PCI;
Num_1 =  I2C_displayToNum();                //Acquire binary value of the display and return it.

rotate_display();

while(switch_1_up);
SW_reset;}
```