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#include <LiquidCrystal.h>   //LCD library
#include <Servo.h>
#include<string.h>

char read_in[16]="################"; //Initialized variable to
store recieved data
char  password[17]="123456789E######";
LiquidCrystal lcd(13, 12, 11, 10, 9, 8);    // tell the
RedBoard what pins are connected to the display
int buzzer_pin= 6;
Servo servo1;
Servo servo2;
bool  stop_servo=false;

void setup() {
  // Begin the Serial at 9600 Baud
   Serial.begin(9600);
  lcd.begin(16, 2); //tell the lcd library that we are using a
display that is 16 characters wide and 2 characters high
  lcd.clear(); //clear the display
   lcd.setCursor(0,0);
  lcd.print("Password: ");//preliminary lcd display prints
  //sets up pin mode for vibration module
   pinMode(buzzer_pin,OUTPUT);
  //servo setup code
   servo1.attach(4);
   servo2.attach(5);
   servo1.write(90);
   servo2.write(0);
}

void loop() {
  lcd.setCursor(0,1); //set cursor to second row
  Serial.readBytes(read_in,16); //Read the serial data and
store in var
  //main password detector
```

```
  lcd.print(read_in);//prints read in data, aka password
entered to screen
   if(read_in[0]=='T'){
     //tamper detection script
      tone(buzzer_pin,165,500);
  }
  //checks to see if data has been passed, if so checks to see
if password entered
  if (read_in[0]!='#'){
     //servo move to constrain user until correct password
     if(!stop_servo){
       servo1.write(0);
       servo2.write(90);
       stop_servo=true;
    }
     //check data for if password entered and correct
     String comp_read= String(read_in);
     String comp_pass= String(password);
      if(comp_read.equals(comp_pass)){
       lcd.setCursor(0,1);
        lcd.print("PASSWORD CORRECT");
       servo1.write(90);
       servo2.write(0);
       delay(1000);
    }else{
       stop_servo=false;
    }
  }
}
```