

# Buttons and digitalRead

Buttons such as the limit switch that VEX provides are digital sensors. These sensors are generally used as triggers for various events such as a robot hitting an object or the wall. One special difference from other sensors is that you need to configure the pin they are connected to as an input. PROS provides a simple interface to perform such tasks that is as follows:

main.h:

```
// digital port number limit switch is plugged into  
#define LIMIT_SWITCH 1
```

init.c:

```
void initializeIO(){  
    // configure the pin that the limit switch is plugged into as an input  
    pinMode(LIMIT_SWITCH, INPUT);  
}
```

opcontrol.c or auto.c:

```
void myFunction(){  
    // ... Do work  
    // digitalRead() will return LOW if PRESSED and HIGH if RELEASED  
    if (digitalRead(LIMIT_SWITCH) == LOW){  
        // ...  
    }  
  
    // ...  
}
```

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