

```
// Our LED-Switch program
#include <avr/io.h>
#define F_CPU 1e6
#include <avr/delay.h>

#define TRUE 1
#define FALSE 0

int main()
{
    //SETUP
    //Button is on PA3
    //LED is PB2

    PORTA = _BV(PA3); //Turn button pullup resistor on

    DDRB = _BV(PB2); //Enable output on the LED pin

    //LOOP
    while (TRUE)
    {
        //if (PINA & _BV(PA3)) //button has not been pushed
        if (bit_is_set(PINA, PA3))
        {
            PORTB = 1; //turn LED off
        }
        else
        {
            PORTB = _BV(PB2); //turn LED on
        }
    }
}
```