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#include <avr/io.h>
#include "UART.h"

void USART_Init( unsigned int baud )
{
    /* Set baud rate */
    UBRR0H = (unsigned char)(baud>>8);
    UBRR0L = (unsigned char)baud;
    /* Enable receiver and transmitter */
    UCSR0B = (1<<RXEN0)|(1<<TXEN0);
    /* Set frame format: 8data, 2stop bit */
    UCSR0C = (1<<USBS0)|(3<<UCSZ00);
}

void USART_Transmit( unsigned char data )
{
    // Wait for empty transmit buffer
    while ( !( UCSR0A & (1<<UDRE0) ) )
    // Put data into buffer, sends the data
    {
        UDR0 = data;
    };
}

/*
unsigned char USART_Receive( void )
{
    // Wait for data to be received
    while ( !(UCSR0A & (1<<RXC0)) )
    // Get and return received data from buffer
    {
        return UDR0;
    };
}
*/
```