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#include "lpc214x.h"
#include "stdio.h"

void UartInit()
{

    PINSEL0 = 0x05;
    U0LCR = 0x83; // LCR :DLAB=1 ; 8 bits ; 1 stop bit ; no parity
    U0DLM = 00;
    U0DLL = 97;
    U0LCR = 0x03; // Line control register :DLAB=0
}

int UART_GetChar(void)
{
    while(!(U0LSR & 0x1));
    return(U0RBR);
}

int UART_PutChar(unsigned char Ch)
{
    while(!(U0LSR & 0x20));
    return( U0THR = Ch);
}

int main(void)
{
    UartInit(9600); // initialise the UART0

    while(1)
    {
        UART_PutChar(UART_GetChar()+1);
    }
    return 0;
}

```