



```
#include <reg932.h>
```

```
sbit sbLS1 = P0^0;
sbit sbLS2 = P0^1;
```

```
// Deklaration der Lichtschranke
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```

```
void main( void )
{
```

```
    unsigned char ucZaehler = 0xFF;
```

```
// Definition der lokalen Variablen
// ucZaehler, Initialisierung mit 0xFF
```

```
    P2M1 = 0x00;
```

```
// Port 2 als quasi-bidirektional
```

```
    P2 = ucZaehler;
```

```
// Anzeige (Port2) = 1111 1111 (0xFF)
// LEDs leuchten nicht, Kausalkette!!
```

```
    while(1)
```

```
    {
        if ( ( sbLS1 == 0 ) && ( sbLS2 == 0 ) )
```

```
// Abfrage ob LS1 und LS2 unterbrochen
```

```
        {
            ucZaehler--;
```

```
            P2 = ucZaehler;
```

```
            while ( sbLS2 == 0 )
```

```
// Solange LS2 noch unterbrochen
```

```
            {
```

```
// Warten
```

```
                ;
```

```
            }
```

```
        }
```

```
    }
```

```
}
```

