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#include <avr/io.h>
#include <avr/interrupt.h>

#include "X10ModtagerDriver.h"
#include "Signal Output.h"

#define House_ID 1
#define Unit_ID 2

int main(void)
{
    InitX10Modtager();
    InitSignalOutput();
    sei();

    char dataPakkeON[94];
    char dataPakkeOFF[94];

    char DataPakkeModtaget[94];

    InitDataPakke(dataPakkeON, House_ID, Unit_ID, 2);
    InitDataPakke(dataPakkeOFF, House_ID, Unit_Kald_ID, 1);

    char state = 0;

    while(1)
    {
        switch(state)
        {
            case 0:
                if (X10ModtagerStby())
                    state = 1;
                break;

            case 1:
                X10ModtagerPakke(DataPakkeModtaget);
                state = 2;
                break;

            case 2:
                if (X10SamligPakke(DataPakkeModtaget, dataPakkeON))
                    SendSignalOutput(2);

                if (X10SamligPakke(DataPakkeModtaget, dataPakkeOFF))
                    SendSignalOutput(1);
                state = 0;
                break;
        }
    }
}
```