```
/* ========================================
 *
 * Lavet af:
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 * Mesterprogrammør.
 *
 * 3. semsterprojekt, Ingeniørhøjskolen i Århus.
 * PWM Sinus til fuld bro inverter i solfanger.
 *
 * ========================================
*/
#include <project.h>



 const uint8 sinetable[ 64 ] = { 1, 2, 5, 10, 15, 21, 29, 37, 46, 56,
                                 67, 78, 90, 102, 115, 127, 139, 152,
                                 164, 176, 187, 198, 208,
                                   217, 225, 233, 239, 244, 249, 252, 253,
                                   254, 253, 252, 249, 244, 239, 233, 225,
                                   217, 208, 198, 187, 176, 164, 152, 139,
                                   127, 115, 102, 90, 78, 67, 56, 46, 37,
                                   29, 21, 15, 10, 5, 2, 1, 0, };



uint8 sineCursor = 0;

int main()
{
    /* Place your initialization/startup code here (e.g. MyInst_Start()) */

           PWMsinus_Start( );

    /* CyGlobalIntEnable; */ /* Uncomment this line to enable global interrupts. */

    for(;;) {

        Pin_2_Write(0);
        Pin_1_Write(1);



        for(sineCursor = 0; sineCursor < 64; sineCursor++)
        {
                    CyDelayUs( 152 );
                    PWMsinus_WriteCompare(  sinetable[ sineCursor ] );

         }
        sineCursor = 0;
```

```
        Pin_1_Write(0);
        Pin_2_Write(1);

        for(sineCursor = 0; sineCursor < 64; sineCursor++)
        {
                    CyDelayUs( 152);
                    PWMsinus_WriteCompare(  sinetable[ sineCursor ] );
        }
        sineCursor = 0;
           }
}

/* [] END OF FILE */

/*
   const uint8 sinetable[ 64 ] = { 1, 2, 5, 10, 15, 21, 29, 37, 46, 56,
                                   67, 78, 90, 102, 115, 127, 139, 152,
                                   164, 176, 187, 198, 208,
                                     217, 225, 233, 239, 244, 249, 252, 253,
                                     254, 253, 252, 249, 244, 239, 233, 225,
                                     217, 208, 198, 187, 176, 164, 152, 139,
                                     127, 115, 102, 90, 78, 67, 56, 46, 37,
                                     29, 21, 15, 10, 5, 2, 1, 0, };
  */
```