

34350-MP

8X8 LED PROGRAMMABLE MODULE



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The Original is available at the following Link

<https://brainy-bits.com/blogs/tutorials/how-to-control-max7219-led-matrix>

```
#include "LedControl.h"

LedControl lc=LedControl(12,11,10,2); // Pins: DIN,CLK,CS, # of Display connected

unsigned long delayTime=200; // Delay between Frames

// Put values in arrays
byte invader1a[] =
{
  B00011000, // First frame of invader #1
  B00111100,
  B01111110,
  B11011011,
  B11111111,
  B00100100,
  B01011010,
  B10100101
};

byte invader1b[] =
{
  B00011000, // Second frame of invader #1
  B00111100,
  B01111110,
  B11011011,
  B11111111,
  B00100100,
  B01011010,
  B01000010
};

byte invader2a[] =
{
  B00100100, // First frame of invader #2
  B00100100,
  B01111110,
  B11011011,
  B11111111,
  B11111111,
  B10100101,
  B00100100
};

byte invader2b[] =
{
  B00100100, // Second frame of invader #2
  B10100101,
  B11111111,
  B11011011,
  B11111111,
  B01111110,
  B00100100,
  B01000010
};
```

```

void setup()
{
  lc.shutdown(0,false); // Wake up displays
  lc.shutdown(1,false);
  lc.setIntensity(0,5); // Set intensity levels
  lc.setIntensity(1,5);
  lc.clearDisplay(0); // Clear Displays
  lc.clearDisplay(1);
}

// Take values in Arrays and Display them
void sinvader1a()
{
  for (int i = 0; i < 8; i++)
  {
    lc.setRow(0,i,invader1a[i]);
  }
}

void sinvader1b()
{
  for (int i = 0; i < 8; i++)
  {
    lc.setRow(0,i,invader1b[i]);
  }
}

void sinvader2a()
{
  for (int i = 0; i < 8; i++)
  {
    lc.setRow(1,i,invader2a[i]);
  }
}

void sinvader2b()
{
  for (int i = 0; i < 8; i++)
  {
    lc.setRow(1,i,invader2b[i]);
  }
}

void loop()
{
  // Put #1 frame on both Display
  sinvader1a();
  delay(delayTime);
  sinvader2a();
  delay(delayTime);

  // Put #2 frame on both Display
  sinvader1b();
  delay(delayTime);
  sinvader2b();
  delay(delayTime);
}

```

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