



EMI_detector

```
const int sensorPin = A5; // The analogue input pin used for sensing EMI
const int led[] = {13, 11, 9, 7, 5, 3, 1}; // LED pin numbers - odd pins
const int thresholds[] = {130, 110, 90, 70, 50, 30, 10}; // Values of noise at which LED turns on

const int ledNumber = 7; // How many LEDs in the design
int ledOn = 0; // Used as a loop counter to turn on/off LEDs

for (int i = 0; i < ledNumber; i++)
{
  if (sensorValue > thresholds[i])
  {
    ledOn++; // Count how many LEDs need to be on
  }
}

// Now loop, turning on the number that need to be on...
for (int i = 0; i < ledOn; i++)
{
  digitalWrite(led[i], HIGH);
}

// ... and turning off those that do not need to be on
for (int i = ledOn; i < ledNumber; i++)
{
  digitalWrite(led[i], LOW);
}
}
```

Done compiling.

```
at java.util.TimerThread.run(Timer.java:600)
at java.util.TimerThread.run(Timer.java:605)
```