Case 1 **Unknown timer**

```c
#include<reg51.h>

void Delay(void);

void main (void)
{
 while(1) // infinite loop
 {
 P3 = 0x00; // LED ON
 Delay();
 P3 = 0xff; // LED OFF
 Delay();
 }
}

void Delay(void)
{
 Int i, j;
 for(i=0;i<10;i++)
 {
 for(j=0;j<10000;j++)
 {
 }
 }
}
```

Case 2 all bits

```c
#include<reg51.h>

void T1M1Delay(void);

void main (void)
{
 unsigned char x;
 P2=0x55;
```

```c
  while(1)
  {
  P2=~P2;
P3 = 0x00;
  for(x=0; x<20;x++)
  T1M1Delay();
  }
}
void T1M1Delay(void)
{
  TMOD= 0X10;
  TL1= 0XFE;
  TH1=0XA5;
  TR1=1;
  while(TF1==0);
  TR1=0;
  TF1=0;
}


Case 3 hexcounter
#include <reg51.h>
void delay()
{
  unsigned int i, j;
  for(i = 0; i < 255; i++)
  {
  for(j = 0; j < 255; j++)
  { }
  }
}
void main()
```

```c
{
unsigned int z;

while(1)

{

for(z = 0x00; z<=0xff; z++)

{

P1 = z;

delay();

}

}

}
```