
```
int timer = 1;
int timer2 = 62;
void setup() {
  for (int thisPin = 6; thisPin <= 13; thisPin++)  {
    pinMode(thisPin, OUTPUT);
  }
}
int hi=0;
int hd=0;
int md=0;
int mi=0;
int sd=0;
int si=0;

void leds (int x)
{
  switch(x)
  {
  case 0:
    delay(timer);
    for (int thisPin = 7; thisPin <= 12; thisPin++)  {
      digitalWrite(thisPin, HIGH);
    }
    delay(timer);
    for (int thisPin = 6; thisPin <= 13; thisPin++)  {
      digitalWrite(thisPin, LOW);
    }
    delay(timer);
    digitalWrite(6, HIGH);
    digitalWrite(13, HIGH);
    delay(timer);
    for (int thisPin = 6; thisPin <= 13; thisPin++)  {
      digitalWrite(thisPin, LOW);
```

```
  }
  delay(timer);
  digitalWrite(6, HIGH);
  digitalWrite(13, HIGH);
  delay(timer);
  for (int thisPin = 6; thisPin <= 13; thisPin++)  {
    digitalWrite(thisPin, LOW);
  }
  delay(timer);
  digitalWrite(6, HIGH);
  digitalWrite(13, HIGH);
  delay(timer);
  for (int thisPin = 6; thisPin <= 13; thisPin++)  {
    digitalWrite(thisPin, LOW);
  }
  delay(timer);
  for (int thisPin = 7; thisPin <= 12; thisPin++)  {
    digitalWrite(thisPin, HIGH);
  }
  delay(timer);
  for (int thisPin = 6; thisPin <= 13; thisPin++)  {
    digitalWrite(thisPin, LOW);
  }
  delay(timer);
  break;

 case 1:
  delay(timer);
  digitalWrite(11, HIGH);
  digitalWrite(6, HIGH);
  delay(timer);
  for (int thisPin = 6; thisPin <= 13; thisPin++)  {
    digitalWrite(thisPin, LOW);
  }
  delay(timer);
  digitalWrite(12, HIGH);
  digitalWrite(6, HIGH);
  delay(timer);
  for (int thisPin = 6; thisPin <= 13; thisPin++)  {
    digitalWrite(thisPin, LOW);
  }
  delay(timer);
```

```
  for (int thisPin = 6; thisPin <= 13; thisPin++)  {
    digitalWrite(thisPin, HIGH);
  }
  delay(timer);
  for (int thisPin = 6; thisPin <= 13; thisPin++)  {
    digitalWrite(thisPin, LOW);
  }
  delay(timer);
  digitalWrite(6, HIGH);
  delay(timer);
  digitalWrite(6, LOW);
  delay(timer);
  digitalWrite(6, HIGH);
  delay(timer);
  digitalWrite(6, LOW);
  delay(timer);
  break;

case 2:
  delay(timer);
  digitalWrite(6, HIGH);
  digitalWrite(7, HIGH);
  digitalWrite(11, HIGH);
  digitalWrite(12, HIGH);
  delay(timer);
  for (int thisPin = 6; thisPin <= 13; thisPin++)  {
    digitalWrite(thisPin, LOW);
  }
  delay(timer);
  digitalWrite(6, HIGH);
  digitalWrite(8, HIGH);
  digitalWrite(13, HIGH);
  delay(timer);
  for (int thisPin = 6; thisPin <= 13; thisPin++)  {
    digitalWrite(thisPin, LOW);
  }

  delay(timer);
  digitalWrite(6, HIGH);
  digitalWrite(9, HIGH);
  digitalWrite(13, HIGH);
  delay(timer);
```

```
  for (int thisPin = 6; thisPin <= 13; thisPin++)  {
    digitalWrite(thisPin, LOW);
  }
  delay(timer);
  digitalWrite(6, HIGH);
  digitalWrite(10, HIGH);
  digitalWrite(13, HIGH);
  delay(timer);
  for (int thisPin = 6; thisPin <= 13; thisPin++)  {
    digitalWrite(thisPin, LOW);
  }
  delay(timer);
  digitalWrite(6, HIGH);
  digitalWrite(11, HIGH);
  digitalWrite(12, HIGH);
  delay(timer);
  for (int thisPin = 6; thisPin <= 13; thisPin++)  {
    digitalWrite(thisPin, LOW);
  }
  delay(timer);
  break;

 case 3:
  delay(timer);
  digitalWrite(7, HIGH);
  digitalWrite(8, HIGH);
  digitalWrite(12, HIGH);
  digitalWrite(13, HIGH);
  delay(timer);
  for (int thisPin = 6; thisPin <= 13; thisPin++)  {
    digitalWrite(thisPin, LOW);
  }
  delay(timer);
  digitalWrite(6, HIGH);
  digitalWrite(13, HIGH);
  delay(timer);
  for (int thisPin = 6; thisPin <= 13; thisPin++)  {
    digitalWrite(thisPin, LOW);
  }
  delay(timer);
  digitalWrite(6, HIGH);
  digitalWrite(10, HIGH);
```

```
  digitalWrite(13, HIGH);
  delay(timer);
  for (int thisPin = 6; thisPin <= 13; thisPin++)  {
    digitalWrite(thisPin, LOW);
  }
  delay(timer);
  digitalWrite(6, HIGH);
  digitalWrite(9, HIGH);
  digitalWrite(11, HIGH);
  digitalWrite(13, HIGH);
  delay(timer);
  for (int thisPin = 6; thisPin <= 13; thisPin++)  {
    digitalWrite(thisPin, LOW);
  }
  delay(timer);
  digitalWrite(7, HIGH);
  digitalWrite(8, HIGH);
  digitalWrite(12, HIGH);
  digitalWrite(13, HIGH);
  delay(timer);
  for (int thisPin = 6; thisPin <= 13; thisPin++)  {
    digitalWrite(thisPin, LOW);
  }
  delay(timer);
  break;

 case 4:
  delay(timer);
  digitalWrite(9, HIGH);
  delay(timer);
  for (int thisPin = 6; thisPin <= 13; thisPin++)  {
    digitalWrite(thisPin, LOW);
  }
  delay(timer);
  digitalWrite(9, HIGH);
  digitalWrite(10, HIGH);
  delay(timer);
  for (int thisPin = 6; thisPin <= 13; thisPin++)  {
    digitalWrite(thisPin, LOW);
  }
  delay(timer);
  digitalWrite(9, HIGH);
```

```
  digitalWrite(11, HIGH);
  delay(timer);
  for (int thisPin = 6; thisPin <= 13; thisPin++)  {
    digitalWrite(thisPin, LOW);
  }
  delay(timer);
  digitalWrite(9, HIGH);
  digitalWrite(12, HIGH);
  delay(timer);
  for (int thisPin = 6; thisPin <= 13; thisPin++)  {
    digitalWrite(thisPin, LOW);
  }
  delay(timer);
  for (int thisPin = 6; thisPin <= 13; thisPin++)  {
    digitalWrite(thisPin, HIGH);
  }
  delay(timer);
  for (int thisPin = 6; thisPin <= 13; thisPin++)  {
    digitalWrite(thisPin, LOW);
  }
  delay(timer);
  break;

 case 5:
  delay(timer);
  digitalWrite(7, HIGH);
  digitalWrite(10, HIGH);
  digitalWrite(11, HIGH);
  digitalWrite(12, HIGH);
  digitalWrite(13, HIGH);
  delay(timer);
  for (int thisPin = 6; thisPin <= 13; thisPin++)  {
    digitalWrite(thisPin, LOW);
  }
  delay(timer);
  digitalWrite(6, HIGH);
  digitalWrite(10, HIGH);
  digitalWrite(13, HIGH);
  delay(timer);
  for (int thisPin = 6; thisPin <= 13; thisPin++)  {
    digitalWrite(thisPin, LOW);
  }
```

```
  delay(timer);
  digitalWrite(6, HIGH);
  digitalWrite(10, HIGH);
  digitalWrite(13, HIGH);
  delay(timer);
  for (int thisPin = 6; thisPin <= 13; thisPin++)  {
    digitalWrite(thisPin, LOW);
  }
  delay(timer);
  digitalWrite(6, HIGH);
  digitalWrite(10, HIGH);
  digitalWrite(13, HIGH);
  delay(timer);
  for (int thisPin = 6; thisPin <= 13; thisPin++)  {
    digitalWrite(thisPin, LOW);
  }
  delay(timer);
  digitalWrite(7, HIGH);
  digitalWrite(8, HIGH);
  digitalWrite(9, HIGH);
  digitalWrite(13, HIGH);
  delay(timer);
  for (int thisPin = 6; thisPin <= 13; thisPin++)  {
    digitalWrite(thisPin, LOW);
  }
  delay(timer);
  break;

 case 6:
  delay(timer);
  digitalWrite(7, HIGH);
  digitalWrite(8, HIGH);
  digitalWrite(9, HIGH);
  digitalWrite(10, HIGH);
  digitalWrite(11, HIGH);
  delay(timer);
  for (int thisPin = 6; thisPin <= 13; thisPin++)  {
    digitalWrite(thisPin, LOW);
  }
  delay(timer);
  digitalWrite(6, HIGH);
  digitalWrite(9, HIGH);
```

```
  digitalWrite(12, HIGH);
  delay(timer);
  for (int thisPin = 6; thisPin <= 13; thisPin++)  {
    digitalWrite(thisPin, LOW);
  }
  delay(timer);
  digitalWrite(6, HIGH);
  digitalWrite(9, HIGH);
  digitalWrite(13, HIGH);
  delay(timer);
  for (int thisPin = 6; thisPin <= 13; thisPin++)  {
    digitalWrite(thisPin, LOW);
  }
  delay(timer);
  digitalWrite(6, HIGH);
  digitalWrite(9, HIGH);
  digitalWrite(13, HIGH);
  delay(timer);
  for (int thisPin = 6; thisPin <= 13; thisPin++)  {
    digitalWrite(thisPin, LOW);
  }
  delay(timer);
  digitalWrite(7, HIGH);
  digitalWrite(8, HIGH);
  digitalWrite(12, HIGH);
  delay(timer);
  for (int thisPin = 6; thisPin <= 13; thisPin++)  {
    digitalWrite(thisPin, LOW);
  }
  delay(timer);
  break;

case 7:
  delay(timer);
  digitalWrite(6, HIGH);
  digitalWrite(7, HIGH);
  digitalWrite(13, HIGH);
  delay(timer);
  for (int thisPin = 6; thisPin <= 13; thisPin++)  {
    digitalWrite(thisPin, LOW);
  }
  delay(timer);
```

```
  digitalWrite(8, HIGH);
  digitalWrite(13, HIGH);
  delay(timer);
  for (int thisPin = 6; thisPin <= 13; thisPin++)  {
    digitalWrite(thisPin, LOW);
  }
  delay(timer);
  digitalWrite(9, HIGH);
  digitalWrite(13, HIGH);
  delay(timer);
  for (int thisPin = 6; thisPin <= 13; thisPin++)  {
    digitalWrite(thisPin, LOW);
  }
  delay(timer);
  digitalWrite(10, HIGH);
  digitalWrite(13, HIGH);
  delay(timer);
  for (int thisPin = 6; thisPin <= 13; thisPin++)  {
    digitalWrite(thisPin, LOW);
  }
  delay(timer);
  digitalWrite(11, HIGH);
  digitalWrite(12, HIGH);
  delay(timer);
  for (int thisPin = 6; thisPin <= 13; thisPin++)  {
    digitalWrite(thisPin, LOW);
  }
  delay(timer);


  break;

 case 8:
  delay(timer);
  digitalWrite(7, HIGH);
  digitalWrite(8, HIGH);
  digitalWrite(11, HIGH);
  digitalWrite(12, HIGH);
  delay(timer);
  for (int thisPin = 6; thisPin <= 13; thisPin++)  {
    digitalWrite(thisPin, LOW);
  }
```

```
  delay(timer);
  digitalWrite(6, HIGH);
  digitalWrite(9, HIGH);
  digitalWrite(10, HIGH);
  digitalWrite(13, HIGH);
  delay(timer);
  for (int thisPin = 6; thisPin <= 13; thisPin++)  {
    digitalWrite(thisPin, LOW);
  }
  delay(timer);
  digitalWrite(6, HIGH);
  digitalWrite(9, HIGH);
  digitalWrite(10, HIGH);
  digitalWrite(13, HIGH);
  delay(timer);
  for (int thisPin = 6; thisPin <= 13; thisPin++)  {
    digitalWrite(thisPin, LOW);
  }
  delay(timer);
  digitalWrite(6, HIGH);
  digitalWrite(9, HIGH);
  digitalWrite(10, HIGH);
  digitalWrite(13, HIGH);
  delay(timer);
  for (int thisPin = 6; thisPin <= 13; thisPin++)  {
    digitalWrite(thisPin, LOW);
  }
  delay(timer);
  digitalWrite(7, HIGH);
  digitalWrite(8, HIGH);
  digitalWrite(11, HIGH);
  digitalWrite(12, HIGH);
  delay(timer);
  for (int thisPin = 6; thisPin <= 13; thisPin++)  {
    digitalWrite(thisPin, LOW);
  }
  delay(timer);
  break;

case 9:
  delay(timer);
  digitalWrite(7, HIGH);
```

```
digitalWrite(10, HIGH);
digitalWrite(11, HIGH);
digitalWrite(12, HIGH);
delay(timer);
for (int thisPin = 6; thisPin <= 13; thisPin++)  {
  digitalWrite(thisPin, LOW);
}
delay(timer);
digitalWrite(6, HIGH);
digitalWrite(9, HIGH);
digitalWrite(13, HIGH);
delay(timer);
for (int thisPin = 6; thisPin <= 13; thisPin++)  {
  digitalWrite(thisPin, LOW);
}
delay(timer);
digitalWrite(6, HIGH);
digitalWrite(9, HIGH);
digitalWrite(13, HIGH);
delay(timer);
for (int thisPin = 6; thisPin <= 13; thisPin++)  {
  digitalWrite(thisPin, LOW);
}
delay(timer);
digitalWrite(6, HIGH);
digitalWrite(9, HIGH);
digitalWrite(13, HIGH);
delay(timer);
for (int thisPin = 6; thisPin <= 13; thisPin++)  {
  digitalWrite(thisPin, LOW);
}
delay(timer);
for (int thisPin = 7; thisPin <= 12; thisPin++)  {
  digitalWrite(thisPin, HIGH);
}
delay(timer);
for (int thisPin = 6; thisPin <= 13; thisPin++)  {
  digitalWrite(thisPin, LOW);
}
delay(timer);
break;
```

```
  case 10:
    delay(timer);
    delay(timer);
    digitalWrite(8, HIGH);
    digitalWrite(11, HIGH);
    delay(timer);
    delay(timer);
    digitalWrite(8, LOW);
    digitalWrite(11, LOW);
    delay(timer);
    delay(timer);
    break;


  }

}

void tiempo(int ii,int di,int ic,int dc, int id, int dd)
{

  leds (ii);
  leds (di);
  leds (10);
  leds (ic);
  leds (dc);
  leds (10);
  leds (id);
  leds (dd);
  // leds (11);
}


void loop()
{


  tiempo(hi,hd,mi,md,si,sd);

  for (;;)
  {
```

```
sd++;
if(sd == 10)
{
  sd=0;
  si++;
}
if(si==6)
{
  sd=0;
  si=0;
  md++;
}
if (md==10)
{
  sd=0;
  si=0;
  md=0;
  mi++;
}
if (mi==6)
{
  sd=0;
  si=0;
  md=0;
  mi=0;
  hd++;
}
if (hd == 10)
{
  sd=0;
  si=0;
  md=0;
  mi=0;
  hd=0;
  hi++;
}
if (hi==2 && hi==5)
{
  sd=0;
  si=0;
  md=0;
```

```
      mi=0;
      hd=0;
      hi=0;
    }


    tiempo(hi,hd,mi,md,si,sd);

    delay(timer2);

  }
}
```