Smart Street Lights

```
int ir1=4;
int ir2=5;
int ir3=6;
int ir4=7;

int led1=8;   //Pin for LED 1
int led2=9;   //Pin for LED 2
int led3=10;  //Pin for LED 3
int led4=11;  //Pin for LED 4

int p1=0;
int p2=0;
int p3=0;
int p4=0;
void setup()
{
  pinMode(ir1,INPUT);
  pinMode(ir2,INPUT);
  pinMode(ir3,INPUT);
  pinMode(ir4,INPUT);

  pinMode(led1,OUTPUT);
  pinMode(led2,OUTPUT);
  pinMode(led3,OUTPUT);
  pinMode(led4,OUTPUT);
}


void loop()
{
  p1=digitalRead(ir1);
  p2=digitalRead(ir2);
  p3=digitalRead(ir3);
  p4=digitalRead(ir4);

if(p1==HIGH)
{
  digitalWrite(led1,LOW);
  digitalWrite(led2,LOW);
```

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```
 digitalWrite(led3,LOW);
}
else
{
  digitalWrite(led1,HIGH);
  digitalWrite(led2,HIGH);
  digitalWrite(led3,HIGH);
}

if(p2==HIGH)
{
  digitalWrite(led2,LOW);
  digitalWrite(led3,LOW);
  digitalWrite(led4,LOW);
}
else
{
  digitalWrite(led2,HIGH);
  digitalWrite(led3,HIGH);
  digitalWrite(led4,HIGH);
}

if(p3==HIGH)
{
  digitalWrite(led3,LOW);
  digitalWrite(led4,LOW);
}
else
{
  digitalWrite(led3,HIGH);
  digitalWrite(led4,HIGH);
}

if(p4==HIGH)
{
  digitalWrite(led4,LOW);
}
else
{
  digitalWrite(led4,HIGH);
}
}
```