// C++ code  
//  
int t = 100;  
void setup()  
{  
  // setup code that only runs once  
  // set pins 0-7 as outputs  
  pinMode(0, OUTPUT);  
  pinMode(1, OUTPUT);  
  pinMode(2, OUTPUT);  
  pinMode(3, OUTPUT);  
  pinMode(4, OUTPUT);  
  pinMode(5, OUTPUT);  
  pinMode(6, OUTPUT);  
  pinMode(7, OUTPUT);  
  pinMode(8, OUTPUT);  
  pinMode(9, OUTPUT);  
}      
void loop()  
{  
  // code that loops forever  
  // note that each LED requieres its own line of code  
  // turn pin 0 on, others low  
  digitalWrite(0, HIGH);   
  digitalWrite(1, LOW);   
  digitalWrite(2, LOW);   
  digitalWrite(3, LOW);   
  digitalWrite(4, LOW);  
  digitalWrite(5, LOW);  
  digitalWrite(6, LOW);  
  digitalWrite(7, LOW);  
  digitalWrite(8, LOW);  
  digitalWrite(9, LOW);  
  delay(t); // wait for t millisecond(s)  
  //turn pin 1 on, others low  
  digitalWrite(0, LOW);   
  digitalWrite(1, HIGH);   
  digitalWrite(2, LOW);   
  digitalWrite(3, LOW);   
  digitalWrite(4, LOW);  
  digitalWrite(5, LOW);  
  digitalWrite(6, LOW);  
  digitalWrite(7, LOW);  
  digitalWrite(8, LOW);  
  digitalWrite(9, LOW);  
  delay(t); // wait for t millisecond(s)  
  //turn pin 2 on, others low  
  digitalWrite(0, LOW);   
  digitalWrite(1, LOW);   
  digitalWrite(2, HIGH);   
  digitalWrite(3, LOW);   
  digitalWrite(4, LOW);  
  digitalWrite(5, LOW);  
  digitalWrite(6, LOW);  
  digitalWrite(7, LOW);  
  digitalWrite(8, LOW);  
  digitalWrite(9, LOW);  
  delay(t); // wait for t millisecond(s)  
  //turn pin 3 on, others low  
  digitalWrite(0, LOW);   
  digitalWrite(1, LOW);   
  digitalWrite(2, LOW);   
  digitalWrite(3, HIGH);   
  digitalWrite(4, LOW);  
  digitalWrite(5, LOW);  
  digitalWrite(6, LOW);  
  digitalWrite(7, LOW);  
  digitalWrite(8, LOW);  
  digitalWrite(9, LOW);  
  delay(t); // wait for t millisecond(s)  
  //turn pin 4 on, others low  
  digitalWrite(0, LOW);   
  digitalWrite(1, LOW);   
  digitalWrite(2, LOW);   
  digitalWrite(3, LOW);   
  digitalWrite(4, HIGH);  
  digitalWrite(5, LOW);  
  digitalWrite(6, LOW);  
  digitalWrite(7, LOW);  
  digitalWrite(8, LOW);  
  digitalWrite(9, LOW);  
  delay(t); // wait for t millisecond(s)  
  //turn pin 5 on, others low  
  digitalWrite(0, LOW);   
  digitalWrite(1, LOW);   
  digitalWrite(2, LOW);   
  digitalWrite(3, LOW);   
  digitalWrite(4, LOW);  
  digitalWrite(5, HIGH);  
  digitalWrite(6, LOW);  
  digitalWrite(7, LOW);  
  digitalWrite(8, LOW);  
  digitalWrite(9, LOW);  
  delay(t); // wait for t millisecond(s)  
  //turn pin 6 on, others low  
  digitalWrite(0, LOW);   
  digitalWrite(1, LOW);   
  digitalWrite(2, LOW);   
  digitalWrite(3, LOW);   
  digitalWrite(4, LOW);  
  digitalWrite(5, LOW);  
  digitalWrite(6, HIGH);  
  digitalWrite(7, LOW);  
  digitalWrite(8, LOW);  
  digitalWrite(9, LOW);  
  delay(t); // wait for t millisecond(s)  
  //turn pin 7 on, others low  
  digitalWrite(0, LOW);   
  digitalWrite(1, LOW);   
  digitalWrite(2, LOW);   
  digitalWrite(3, LOW);   
  digitalWrite(4, LOW);  
  digitalWrite(5, LOW);  
  digitalWrite(6, LOW);  
  digitalWrite(7, HIGH);  
  digitalWrite(8, LOW);  
  digitalWrite(9, LOW);  
  delay(t); // wait for t millisecond(s)  
  //turn pin 8 on, others low  
  digitalWrite(0, LOW);   
  digitalWrite(1, LOW);   
  digitalWrite(2, LOW);   
  digitalWrite(3, LOW);   
  digitalWrite(4, LOW);  
  digitalWrite(5, LOW);  
  digitalWrite(6, LOW);  
  digitalWrite(7, LOW);  
  digitalWrite(8, HIGH);  
  digitalWrite(9, LOW);  
  delay(t); // wait for t millisecond(s)  
  //turn pin 9 on, others low  
  digitalWrite(0, LOW);   
  digitalWrite(1, LOW);   
  digitalWrite(2, LOW);   
  digitalWrite(3, LOW);   
  digitalWrite(4, LOW);  
  digitalWrite(5, LOW);  
  digitalWrite(6, LOW);  
  digitalWrite(7, LOW);  
  digitalWrite(8, LOW);  
  digitalWrite(9, HIGH);  
  delay(t); // wait for t millisecond(s)  
}