```
#include "Main.h"
void room1 (void)
{
   Wait (200);
   x2 = GetAnalogInput (2);
   if (x2 > 200)
       SetMotor (2, 50);
       SetMotor (3, -50);
       Wait (150);
       x6 = GetAnalogInput ( 6 );
       while (x6 < 140)
       {
          SetMotor (2, 22);
          SetMotor (3, 22);
          x6 = GetAnalogInput ( 6 );
       }
       x2 = GetAnalogInput (2);
       while (x2 > 100)
          SetMotor (2, 18);
          SetMotor (3, 18);
          x2 = GetAnalogInput (2);
       SetMotor (2,0);
       SetMotor (3,0);
       Wait (200);
   }
   else
   {
       x2 = GetAnalogInput (2);
       x4 = GetAnalogInput (4);
       while ( x2 < 200 \&\& x4 > 105 )
          x3 = GetAnalogInput ( 3 );
          error = xI - x3;
          mr = mor - 0.08* error;
          ml = mol - 0.08* error;
          SetMotor (2, mr);
          SetMotor (3, ml);
          x2 = GetAnalogInput(2);
          x4 = GetAnalogInput (4);
       SetMotor (2,0);
       SetMotor (3,0);
       Wait (100);
       x2 = GetAnalogInput (2);
       x4 = GetAnalogInput (4);
       while ( x2 < 200 \&\& x4 > 147 )
       {
          x3 = GetAnalogInput (3);
          error = xI - x3;
          mr = mor - 0.08 * error;
          ml = mol - 0.08 * error;
          SetMotor (2, mr);
          SetMotor (3, ml);
          x2 = GetAnalogInput (2);
          x4 = GetAnalogInput (4);
```

```
SetMotor (2,0);
SetMotor (3,0);
Wait (100);
x2 = GetAnalogInput (2);
x6 = GetAnalogInput (6);
while (x2 < 200 \&\& x6 > 140)
   x3 = GetAnalogInput (3);
   error = xl - x3;
   mr = mor - 0.08 * error;
   ml = mol - 0.08 * error;
   SetMotor (2, mr);
   SetMotor (3, ml);
   x2 = GetAnalogInput (2);
   x6 = GetAnalogInput (6);
}
if (x2 < 160)
   SetMotor (2,0);
   SetMotor (3,0);
   Wait (200);
   x5 = GetAnalogInput (5);
   while (x5 > 150)
   {
       SetMotor (2, 20);
       SetMotor (3, 20);
       x5 = GetAnalogInput (5);
   SetMotor (2,0);
   SetMotor (3,0);
   Wait (500);
   x2 = GetAnalogInput ( 2 );
   while (x2 < 170)
   {
       SetMotor (2, -40);
       SetMotor (3, 40);
       x2 = GetAnalogInput (2);
   SetMotor (2,0);
   SetMotor (3,0);
   Wait (333);
   ash();
   x1 = GetAnalogInput (1);
   while (x1 < 190)
       SetMotor (2, 40);
       SetMotor (3, -40);
       x1 = GetAnalogInput (1);
   SetMotor (2,0);
   SetMotor (3,0);
   Wait (200);
   x1 = GetAnalogInput (1);
   while (x1 > 170)
       SetMotor (2, 16);
       SetMotor (3, 16);
```

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```
x1 = GetAnalogInput (1);
   SetMotor (3,0);
   SetMotor (2,0);
   Wait (200);
   x2 = GetAnalogInput (2);
   while (x2 < 210)
   {
      x4 = GetAnalogInput (4);
       error = xrb - x4;
       mr = mor + 0.08* error;
       ml = mol + 0.08* error;
       SetMotor (2, mr);
       SetMotor (3, ml);
      x2 = GetAnalogInput (2);
   SetMotor (3,0);
   SetMotor (2,0);
   Wait (100);
   x2 = GetAnalogInput (2);
   while (x2 > 160)
   {
       SetMotor (2, -25);
       SetMotor (3, -25);
       x2 = GetAnalogInput ( 2 );
   SetMotor (3,0);
   SetMotor (2,0);
   Wait (200);
}
else
{
   SetMotor (3,0);
   SetMotor (2,0);
   Wait (200);
   x2 = GetAnalogInput (2);
   while (x2 > 120)
   {
       SetMotor (2, -22);
       SetMotor (3, -22);
       x2 = GetAnalogInput (2);
   SetMotor (3,0);
   SetMotor (2,0);
   Wait (200);
   x2 = GetAnalogInput (2);
   while (x2 < 210)
   {
      x4 = GetAnalogInput (4);
       error = 370 - x4;
       mr = mor + 0.05^* error;
       ml = mol + 0.05^* error;
       SetMotor (2, mr);
       SetMotor (3, ml);
      x2 = GetAnalogInput (2);
   SetMotor (3,0);
   SetMotor (2,0);
```

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```
Wait ( 100 );
          x2 = GetAnalogInput (2);
          while (x2 > 140)
              SetMotor ( 2 , -25 );
              SetMotor (3, -25);
              x2 = GetAnalogInput ( 2 );
          }
          SetMotor (3,0);
          SetMotor(2,0);
          Wait ( 100 );
       }
       SetMotor (2,0);
       SetMotor (3,0);
       Wait (200);
   }
}
```