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// Ch4_DoorDlg.cpp : implementation file
//完整的VS源代码工程见附件。在公邮hust mrsu os mooc@163.com中也有!
UINT DrawRectgle(LPVOID lpParam);
UINT DrawRectgle(LPVOID lpParam);
UINT DrawCircle(LPVOID lpParam)
{
  CCh4_DoorDlg* pDlg = (CCh4_DoorDlg*)lpParam,
  // TODO: Add your control notification handler code here
  CDC * pDC;
pDC= pDlg->GetDC();
  CPoint CirclePoint(180,180);//原点
  COLORREF crColour=RGB(0,0,255);
  int R0 = 150; //半径
  const double degree_half=0.008726; //每半度 2×3.1415 / 720
  int i = 0;
for (i=0; i<720; i++)
 pDC->SetPixelV(
     CirclePoint.x + R0 * sin(degree_half * i),
     CirclePoint.y + R0 * cos(degree_half * i),
   crColour);
 Sleep(10);
  }
  return 0;
```

```
UINT DrawRectgle(LPVOID lpParam)
  CCh4_DoorDlg* pDlg = (CCh4_DoorDlg*)lpParam;
  // TODO: Add your control notification handler code here
  CDC * pDC;
pDC= pDlg->GetDC();
  CPoint CirclePoint(180,180);//原点
  COLORREF crColour = RGB(255,0,0);
  int R0 = 150; //半径
  const double degree_half=0.008726; //每半度 2×3.1415 / 720
//换个位置画方
  CirclePoint.x = CirclePoint.x + 2 * R0 + 10;
//右上: 左上: 左下: 右下:
// 右上: (CirclePoint.x + R0, CirclePoint.y - R0)
// 左上: (CirclePoint.x - R0, CirclePoint.y - R0)
// 左下: (CirclePoint.x - R0, CirclePoint.y + R0)
// 右下: (CirclePoint.x+R0, CirclePoint.y+R0)
float factor = 1.65; //屏幕宽度长度不协调, 需要调节!!!
float Delta = 2 * R0 / 180 * factor;
int ii = 0;
//上边
for (ii=0; ii<180; ii++)
  pDC->SetPixeIV(
     CirclePoint.x + R0 - Delta * ii,
     CirclePoint.y - R0,
   crColour);
```

```
Sleep(10);
//左边
for (ii=0; ii<180; ii++)
{
  pDC->SetPixelV(
     CirclePoint.x - R0,
    CirclePoint.y - R0 + Delta * ii,
   crColour);
 Sleep(10);
}
//下边
for (ii=0; ii<180; ii++)
  pDC->SetPixelV(
     CirclePoint.x - R0 + Delta * ii,
     CirclePoint.y + R0,
   crColour);
 Sleep(10);
//右边
for (ii=0; ii<180; ii++)
  pDC->SetPixelV(
     CirclePoint.x + R0,
     CirclePoint.y + R0 - Delta * ii,
   crColour);
 Sleep(10);
}
return 0;
```

```
// 画圆和画方(线程方式)
//同时调用两个函数分别画圆和画方
void CCh4_DoorDlg::OnBUTTONThread()
{
// TODO: Add your control notification handler code here
// 画圆的函数: DrawCircle
pThread_Circle = AfxBeginThread(DrawCircle, this);
// 画方的函数
pThread_Rectgle = AfxBeginThread(DrawRectgle, this);
}
```