判断点在多边形内

```
typedef struct tagST_POINT {
   int x;
   int y;
} ST_POINT;
BOOL PtInPolygon(ST_POINT p, ST_POINT* ptPolygon, int nCount)
   int nCross = 0, i;
   double x;
   ST_POINT p1, p2;
   for (i = 0; i < nCount; i++)</pre>
       p1 = ptPolygon[i];
       p2 = ptPolygon[(i + 1) % nCount];
       if ( p1.y == p2.y ) // p1p2 与 y=p.y平行
           continue;
       if (p.y < min(p1.y, p2.y)) // 交点在p1p2延长线上
           continue;
       if (p.y >= max(p1.y, p2.y)) // 交点在p1p2延长线上
           continue;
       x = (double)(p.y - p1.y) * (double)(p2.x - p1.x) / (double)
(p2.y - p1.y) + p1.x;
       if (x > p.x)
           nCross++; // 只统计单边交点
   return (nCross % 2 == 1);
```