**public void** filter(seq,index,fraction) {  
 maxPtDist.initialize();//①保留最大值  
 numSubSegs =Math.rint(1.0 / fraction);// ②计算致密段数  
  
 Coordinate p0 = seq.getCoordinate(index - 1);  
 Coordinate p1 = seq.getCoordinate(index);

// ③index是坐标数组索引  
   
 **double** delx = (p1.x - p0.x) / numSubSegs;  
 **double** dely = (p1.y - p0.y) / numSubSegs;

//④以致密段数量计算delta值  
  
 **for** (**int** i = 0; i < numSubSegs; i++) {  
 **double** x = p0.x + i \* delx;  
 **double** y = p0.y + i \* dely;  
 Coordinate pt = **new** Coordinate(x, y);   
 minPtDist.initialize();  
 distanceToPoint.computeDistance(geom, pt, minPtDist);

//⑤坐标距离计算  
 maxPtDist.setMaximum(minPtDist);//保存最大值  
 }  
}