**// 凸包 convex**

**int Cross(int x1,int y1,int x2,int y2){return x1\*y2-x2\*y1;}**

**int Dis(Point a){return a.x\*a.x+a.y\*a.y;}**

**bool cmp(Point a,Point b)**

**{return Cross(a.x,a.y,b.x,b.y)>0||Cross(a.x,a.y,b.x,b.y)==0&&Dis(a)<Dis(b);}**

**void Convex() { // 所有Poi.x-=leftmostPoint.x Poi.y-=leftmostPoint.y**

**sort(Poi+1,Poi+N+1,cmp);**

**for (int i=1;i<=N;i++) {**

**int st1=stack[stail],st2=stack[stail?stail-1:0];**

**while(stail>1&&Cross(Poi[i].x-Poi[st1].x,Poi[i].y-Poi[st1].y,Poi[st1].x-Poi[st2].x,Poi[st1].y-Poi[st2].y)>=0)**

**st1=stack[--stail],st2=stack[stail-1];**

**stack[++stail]=i;**

**}**

**for(int i=1;i<stail;i++)**

**Ans+=Cross(Poi[stack[i]].x,Poi[stack[i]].y,Poi[stack[i+1]].x,Poi[stack[i+1]].y);**

**Ans/=2;**

**}**