

```

98 find forth point of rectangle:
99 typedef complex<double> point;
100 //should be in order      A      B      C
101 point find_forth(point first , point second , point third){
102     point cur = (first + third) / 2.0;
103     point target = 2.0 * cur - second;
104     return target;
105 }
106
107 angle of line first-second with X_axis
108 long double angle_with_x(point first , point second){
109     return atan2((second.imag() - first.imag()), (second.real() - first.real()));
110 }
111
112 rotate p around c by angle
113 point rotate(point p, point c, long double angle) {
114     angle*=-1;
115     point rotated = polar(abs(p - c), arg(p - c) + angle);
116     return rotated;
117 }
118
119 Volume of cone
120 double volumeOfCone(double h ,double r){
121     return (1.0/3.0)*(pi*r*r*h);
122 }
123
124 degree to radian
125 double toRadian(double degree){
126     return degree*(pi/180.0);
127 }

```