1. The co-ordinates are imported from the .kml file.
2. The imported file consists of 4 co-ordinates of required area
3. To more priority to the centre of the area, the centre position is calculated
4. Next max area that each drone can handle is calculated. This value depends on the capacity of the battery and other values
5. The length of 1st square id then calculated considering that the max area for the last drone to traverse must be less than the max possible area for each drone
6. After finding the co-ordinates of the 1st square, other co-ordinates are calculated depending on the Fibonacci values.

The relationship between the Fibonacci values and the sqares are that their area depends on the square of the respective Fibonacci value and also the length of the diagonal is proportional to the respective Fibonacci value

1. Using the above stated relationship, the co-ordinates of diagonals of individual squares are calculated initially

The formula to calculate the length of the diagonal is given by

The initial point of the diagonal id known and other point is calculated by translating distance depending of following condition

Say *count* is the iteration number. Then,

If count%4==0 then traverse 45°

If count%4==1 then traverse 135°

If count%4==2 then traverse 225°

If count%4==3 then traverse 315°

After completing the iterations, the 2 points of diagonals of individual squares are obtained.

1. Using the above two points, the other two points are calculated to get all four co-ordinates of the square.
2. These points are then exported into kml file with ‘ , ’ delimited latitude and longitude co-ordinates and ‘, 0.0 ’ delimited co-ordinate point pairs.