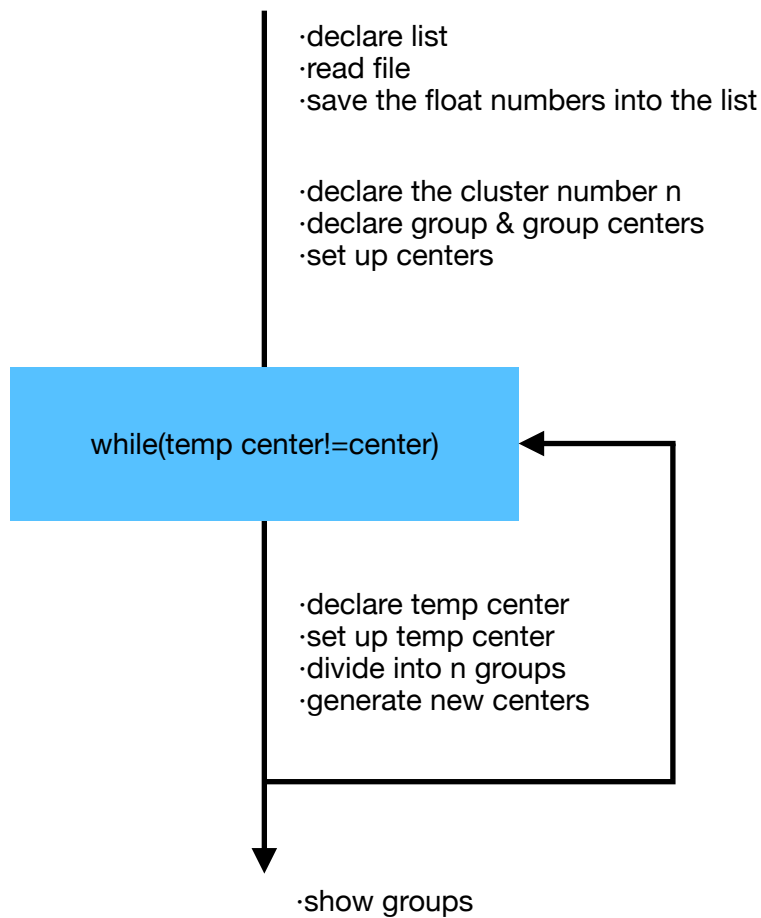


Two-dimensional K-Means



The way I divide numbers:

·compute the distances between the centers and the point (x, y) .

$$d = (x_1 - x_2)^2 + (y_1 - y_2)^2$$

·add the point to the group whose center is most close to it.

The way I compute group center:

·Add all value, x , of the points in the group, and divided by the total points number that in the group. Get X .

$$X = (x_1 + x_2 + x_3 + \dots + x_n) / n$$

·Add all value, y , of the points in the group, and divided by the total points number that in the group. Get Y .

$$Y = (y_1 + y_2 + y_3 + \dots + y_n) / n$$

·the center of the group is (X, Y) .