$\rightarrow$ calculate $\Delta \overline{RA_i}$ for galaxies in "Search Array".

③ But update (R_{new}^k) for galaxies in "Update Array".

for step 1 $\rightarrow$ in order to obtain galaxies in the pixel, you need to compare — an if statement — you compare each ~~galaxies~~ galaxy's Ra value to be within that

for each galaxy — you have four RA values — which one do you use?

∴ before this — complete two steps. RA_1, RA_2, RA_3, RA_4.

for all galaxies $\begin{cases} \overline{RA} = med(RA_i) \\ \Delta RA_i = \overline{RA} - RA_i \end{cases}$