## STEP 1

After analyzing the algorithms, we begin the modification. First, we ensure that it only calculates collisions for balls in motion.

This algorithm has the disadvantage of calculating collisions for all balls, so we will modify it to only consider those in motion.

With these modifications, we are sure that the collisions calculated are from moving ball, because we are looking for balls with a direction different than 0, so they have a direction and so they are mooving.