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CS 372

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Assignment 5

3. Since there are 4 for-loops nested in the anyEqual algorithm, the Big-Oh would be quadratic: O(n^4) where n is the size of the array being passed in. This algorithm is looking to see if there are any duplicates in a randomly assigned array by testing each number against every number in the array, as long as that number is not itself. The algorithm returns 1 if there are duplicates, and 0 if there are no duplicates.