# Lab 4: 1D Array

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1. Write a program to generate ***M*** random integers and put them in an array, then check how random your random number generator is! Generate another sequence of random numbers ***N*** and count how many times it occurs in the array – using a sequential search.
2. Run your program for M= 10, 100, 1000 and N= 10, 100, 1000, timing the result using clock()
3. Change the logic of the above code to work recursively.
4. What is the Big-O of your code? Double check the big-o problems at the end of last weeks workshop and see if you understand them.