

Exercise Questions in C

Below, find some C exercise problems. These are just problems to test your C skills, it is in no way indication to what the exam covers.

- Read a vector of length N and find the number that is repeated twice (assume only one value is repeated twice)
- Read a vector and find the number that is repeated the most
- Read two arrays and find if one is a subset of another array
- Repeat to see if all the elements in the first array is in the second array
- Repeat to check if the elements in the first array exist in the second array in the same order. For example if the first array is

1 7 6 9, the second array is

3 2 1 5 7 8 3 9 6 2 9 then the answer is yes, if the second array is YES

3 1 2 5 7 9 4 6 then the answer is NO

- Write a program to read a file and display the number of lines in the file
- Write a program to read a file line by line and copy the contents to another file except the lines that has more than 25 characters
- Write a program that reads a file and copy the contents of the file to another file removing all new lines characters
- Consider a file that contains records. Each record consists of two integers and a string of length 16 bits. Records are not separated by new lines, as a matter of fact they are not separated at all, just packed one after another. Read a file to read and display the first integer of every record
- Write a program to check if a sequence of numbers form a geometric progression or not (the numbers are floating point numbers, be careful with comparing floats)

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