Hi,

Could you ask Jack to complete the following coding exercise, please?

*Given a sorted array of N elements with duplicates, for example:*

*a,b,b,b,b,b,d,h,h,h,p*

*count the number of occurrences of each unique element.*

*1a) Solve this with an O(N) algorithm*

*1b) Solve this with a better-than-O(N) algorithm and analyze its time complexity.*

*While it may be useful to run your code with the example array above, please also test it with a larger (ex., 100-1000 elements) randomly generated, sorted array.*

*Please provide all source code, tests and test results in a publicly accessible repository, e.g. GitHub, at the latest by start of business of Monday, 13th Jan 2020.*

Thanks!

Tristan Faber