**C++ Coding Challenge FAQ**

How will this be reviewed?

* We will have two Mapbox Senior Engineers anonymously review the entirety of your submission including your documentation. The README, build instructions, and comments will be just as important as the code.

Should the utility search the contents inside the file or just the file name?

* The search string is applied to the file contents, not to the filenames

Should the utility support any pattern matching?

* At the minimum, it needs to support exact match of the search string. They are free to use functions from the c++ standard library (like std::regex) however

Could you give me an example of a query?

* This is an example. There is not a specific query that is required.
* ./my\_grep\_like\_util "ITEM\_IM\_SEARCHING\_FOR" ~/path\_to\_search

Is there guidance on what the format of the query should be? (e.g., simple string lookup, a regex match, or maybe something else?)

* It’s up to you how simple or complex you want to keep the search string. It can be a fixed string or a regex expression. You are free to choose existing standard library modules for string search. Eg using std::regex allows one to use regex as input.

Is a specific file format required for the searches to apply to? (e.g., .txt, .json, any ascii character file?)

* No, you can choose whatever extensions you want to apply string search too. Since the input is ascii characters, it makes sense to exclude files with non-ascii contents.

Is there an expected max size for the directory being searched? (e.g., 10,000 thousand files, 500gb, etc.) I ask to ensure my tests have sufficient coverage.

* No hard limit. but the solution should take into account a large number of files/dirs being given as input as well the size of individual files themselves. It should be able to gracefully handle such input