

Requirements:

Front end: Angular.js

Back end: Express.js

Business Logic should be processed on server side.

These programming tasks are property of ZenSoft Inc. and cannot be shared with others, in public forums or otherwise.

Your test assignment should be posted on github with the link to it provided.

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Please provide a complete and working solution in JavaScript. It needs to compile and run. Please supply everything needed to run the application (makefiles /scripts / 3rd party libraries) or give clear instructions on how to build your submission. This is an exercise in code quality, not speed(within reason).

1) Write an application that prompts the user for a text string, performs a Web search (Google/Yahoo/Bing/etc - your choice) and returns the title and URL of the first result. Use any tools /libraries you wish, but you must provide instructions on how to build and run your application. Please include a brief description of your application and why you implemented it the way you did.

2) Write an application that does the following:

Given two text files: input.txt and patterns.txt, where input.txt is a free-text document composed of 1 or more lines of text, and patterns.txt is a set of search strings (1 per line). Your application should be able to run in one of three different modes:

Required:

Output all the lines from input.txt that match exactly any pattern in patterns.txt

Optional:

2) output all the lines from input.txt that contain a match from patterns.txt somewhere in the line.

3) output all the lines from input.txt that contain a match with edit distance ≤ 1 patterns.txt

For example:

input.txt -

Hello. This is line 1 of text.
and this is another.
line 3 here
the end

patterns.txt -

the end
matches
line 3
and this is anoother.

Mode 1 outputs:
the end

Mode 2 outputs:
line 3 here
the end

Mode 3 outputs:
and this is another.
the end

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Once again, please feel free to use any tools / libraries.