PC Initial Write-up:

Congratulations!

You've just received an exciting job offer from the Interastral Peace Corporation (or IPC, for short), the intergalactic mega corporation responsible for the economy of the entire cosmos. To uphold their preservation of the galactic economy, they must mine rare earth minerals, which they trade on the free market. As an entry-level worker, your job is to identify which mines are safe to explore and which aren't. Until now, they have used an entirely manual system, but you have a feeling you might be able to automate it using their immense computing power.

One of their lead researchers has developed an innovative and unique way to represent data on potential mines. The entire dataset of all mines to explore will be provided as a single string, where mines are separated by a single space. You will then be given a list of materials to mine (aventurine, topaz, jade, diamond, etc.) and a list of objects to avoid. If any mine contains any object that must be avoided, it must *not* be mined. If it contains a material to mine and no material to avoid, you should mine it! Exploring a mine with no materials would be a waste of IPC resources.

The first line of input will contain M, the number of desired rare earth materials.
The next M lines will each contain a string representing a desired rare earth material.

The next line of input will contain A, the number of objects to avoid.
The next A lines will each contain a string representing an object to avoid.

The final line of input will contain a single space-separated string consisting only of lowercase letters representing all mines to explore.

Return the indices of all mines that should be explored by the IPC, where each line is a single index.

Sample Input:
2
stellarjade
diamond
2
bomb
acid
dirtdirtdirtstellarjadedirtdirtbomb gravelstonegraveldiamondgravel dirtdirt gravelbomb
stellarjadestellarjade

Output:
1
4