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| KMIT-APA-4106 | KMIT – NIRANTHAR Season-1 Programming Assignments | Saturday 21 st Sep 2019 |
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1 CompoundWords

Hasini is a 2nd grader and likes to see how compound words are made. So, given a compound word (which is made from 2 or 3 words) she tries to figure out the simple words. If you are to help Hasini, and are given a compound word with an array of simple words, find as to whether or not the compound word can be formed with the given simple words.

Input Format:

Line 1- A string, Contains a single compound word

Line 2- An array of Strings, simple words array should not contain duplicate words.

Output Format: Boolean value, Using the given simple words array can we form the given compound word or not.

Note:

The same word may be reused multiple times in forming compound words.

You may assume the simple words array does not contain duplicate words.

Input/Output

| Input | Output | Comments |
|---------------------------------------------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| programming program ing | False | First Line “ programming ” indicates single compound word Second Line program ing indicates simple words Explanation: Return <i>false</i> because, we cannot form the compound word programming using simple words array – <i>program, ing</i> |
| textbook text book | True | Explanation: Return <i>true</i> because, we can form the compound word textbook using simple words array – <i>text, book</i> |
| pineappletree let pine applet apple tree | True | Explanation: return <i>true</i> because, we can form the compound word pineappletree using simple words array – <i>pine, apple, tree</i> |