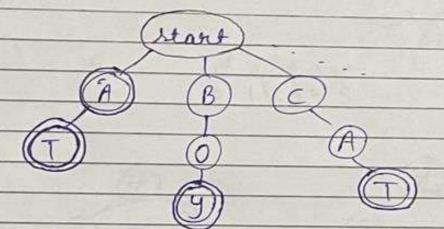
* Word composition problem *

1) The given question is similarily like dictionary so the tree data structure will work much better than other data structure, where trie looks like



ward is terminating there so the words in trie are (A, AT, BOY, (AT)

- 2) so me mill start by reading input by
- 3) Lets dryrun the code for Input-01.txt

 where it has

 cat

 cats

 cats

 dogs

 dogsatsdog

 hippopotamuses

 rat

 ratcatdogsat

Spiral

Date.... => Data will be inserted in the trie For each word in the file, the code finds suffix and adds in pair class for eg "catadogcata" suffices like "cata"
and "dogcata" and pairs will be (catedograte, dograte)

(catedograte, cate)

Similarity, it finds "cate" in trie

and stored in compoundword.

cot & cotes

cot & cotes

cot & cotes

cotedograte = cat

cotedograte = cat

cotedograte | cotedograte

longest = catedograte | longest = catedograte

slongest = catedograte | longest = catedograte

slongest = catedograte | longest = catedograte

longest = catedograterat | slongest = catedograte

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longest = catedo -0 0 longert = catrologicals | longert = catrologicals

slongert = catrologicals | longert = catrologicals |

longert = ratical dogical | longert = catrologicals |

slongert = catrologicals | longert = catrologicals |

slongert = c So output will be

Longert compound word = rateatdogcat

second longert compound word = catedogcats Spiral