Part 1: I like to start from the most challenging parts, so I'm going to tigure out this problem, starting from the logic to find the dependencies We are going to save the libraries and its dependencies using a literal object call dependencies Table Given an str, tirst we need to separate them in lines, so: lines: List = str. splice ("In") Every line should contain the tollowing pattern

'Iw depends on lut" It some line doesn't tollow the pattern it will be discarded

Now with all the lines validated I'm going to tigure out how to store them.

Notice that we can do this right away after verifing the line to avoid traversing the list again So we look up for the library and their dependencies with spaces

the words depends on could be used as a separator

match = line. split (" depends on ")

library = match [0]

dependencies str = match[]

dependencies : dependencies_stv. split (" ") + This should be a set to avoid

So we add library as a key and the dependencies as its value

dependencies Table[library] = dependencies with this clone we can tollow the next step

Part 2:

Now I'm going to figure at how to find the nested solutions, and here is when using a literal object is really convenient

de pendencies lable "A": ["B","("] "B": ["(", "E") " (": ["G")
" 0": ["A", "F"] "E": ["F"] "F": ["H"]

(A) 3 (B) -> (D) -> (B)

Something important to notice before

For example, it we have the following string

A->BCEFGH ABC B > CEF 6H B > (E ()G D- ABCEFGH DAF EつFH モット FOH F>H imput photo

Notice that their values are ordered alphabetically

This is not exactly a matter of concern. But there's
some incertify of how other people would make their own test Just by this I'll make the baje for ordering using lexicon

. Also we need to avoid circular dependency

Il seems that we can use iteration and recursion

for library in degendenciable has new Path = new Set() find AllLibrares (library) dependenciable new Path, libra dependencies Table (library): new Path

Then after that we should order the values alphabetically sort Alphabetically (obj)

for library in obj {
 array : Array from (obj [library])
 array sort()
 obj [library] = dependencies Array

Now I'm going to skip the logic of reading from a file and print the output, because it's worldes and carbe done easily

find All Libraries (Key, ob), path, origin) it key not in objectiven - recursive care for K in obj [Key] to avoid circular if key == origin 11 path has (K) continue, & regression find All Libraries (K, ob, path, origin) path add (K)