12768 - 電機資結 2020 HW3 Tree Anagrams
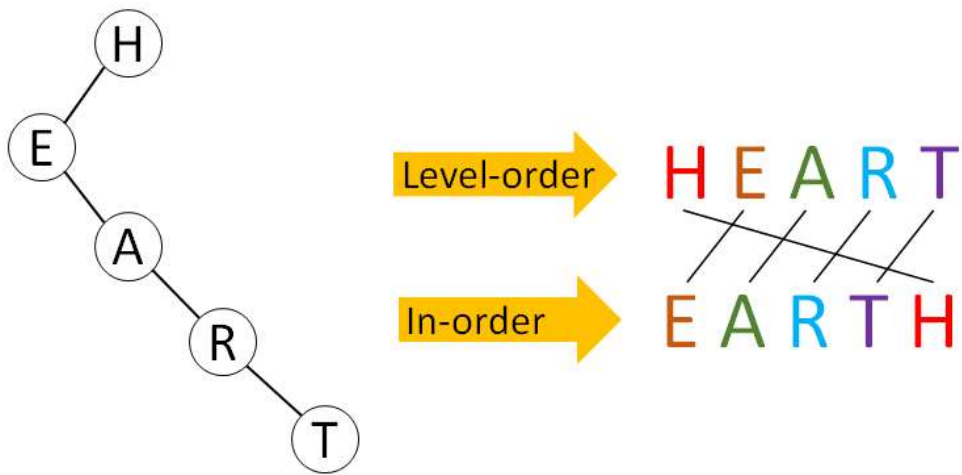
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Description

Anagrams is "變位字" in Chinese
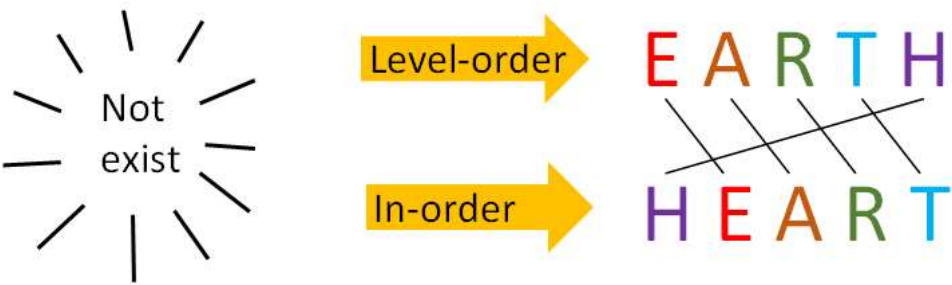

Our "Tree Anagrams" definition is as follows:

Not All Anagrams are Valid Trees. For example, if we want "EARTH" to be the level-order sequence and "HEART" to be the in-order sequence, the tree does not exist.

Input

```
5 ──────────── Number of sequence pairs
abdcef  ⎫ ── Level-order sequence
adbecf  ⎬ ── In-order sequence   (A letter is used exactly once in a sequence)
abecd   ⎫
ebdac   ⎭
adbce   ⎫
dacbe   ⎭
abdecfhg ⎫
efbhcgad ⎭
acbdegf  ⎫
ecdfagb  ⎭
```

Output

```
                        Same as the input
                                           ── Permutation sequence
5
abdcef
adbecf 0-2-1-4-3-5 Yes
abecd
ebdac 3-1-0-4-2 No          ── Does the tree exist? Yes or No.
adbce
dacbe 1-0-3-2-4 Yes
abdecfhg
efbhcgad 6-2-7-0-4-1-3-5 Yes
acbdegf
ecdfagb 4-1-6-2-0-5-3 No
```

Sample Input

Download (data:text/plain;charset=utf-8,5%0D%0Aabdcef%0D%0Aadbecf%0D%0Aabecd%0D%0Aebdac%0D%0Aadbce%0D%0Adacbe%0D%0Aabdecfhg%0D%0Ae

```
5
abdcef
adbecf
abecd
ebdac
adbce
dacbe
abdecfhg
efbhcgad
acbdegf
ecdfagb
```

Sample Output

Download (data:text/plain;charset=utf-8,5%0D%0Aabdcef%0D%0Aadbecf%200-2-1-4-3-5%20Yes%0D%0Aabecd%0D%0Aebdac%203-1-0-4-2%20No%0D%0Aadbce

```
5
abdcef
adbecf 0-2-1-4-3-5 Yes
abecd
ebdac 3-1-0-4-2 No
adbce
dacbe 1-0-3-2-4 Yes
abdecfhg
efbhcgad 6-2-7-0-4-1-3-5 Yes
acbdegf
ecdfagb 4-1-6-2-0-5-3 No
```

Tags

Discuss