K Anagrams

$k = 3$

s1 : a b a a c b d c b

a 3 b 3 c 2 d 1

s2 : a a a ~~a~~ ~~a~~ b b b ~~b~~

c c d

- ~~a 5~~ ~~b 4~~ ~~c 0~~ ~~d 0~~

  a_3 b_3 c_2 d_1

  -2 -1 2 1

a_1 -> freq of a in first s1.

a_2 -> freq. of a in second string s2.

$\Delta = (a_1 - a_2) + (b_1 - b_2) + \dots\dots (z_1 - z_2)$

$= (a_1 + b_1 + c_1 \dots\dots z_1) - (a_2 + b_2 \dots\dots + z_2)$

$= 0$

s1: a a a a a b b b b

s2: a b a a c b d c b

a - ~~5~~ ~~4~~ 2

b - ~~4~~ ~~3~~ ~~2~~ 1

c - (-2)

d - (-1)

Group Anagrams

5
pepcoding codingpep pepper rapper repepp

key vs value

fmap vs AL<string>

↳ Hashmap → equals, hashcode

for a class to be used key → equals, hashcode

Class :

(i) equals

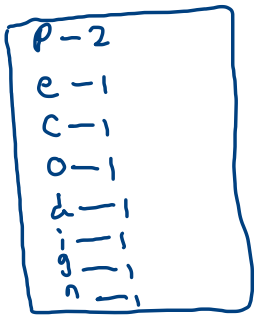
(ii) hashcode

(iii) compareTo

(iv) toString

Fmap vs Ad <string>

5
pepcoding codingpep pepper rapper repepp



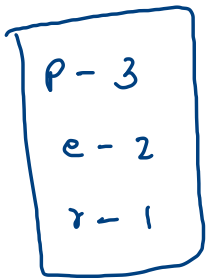
→ pepcoding, codingpep

[[pepcoding, codingpep],]

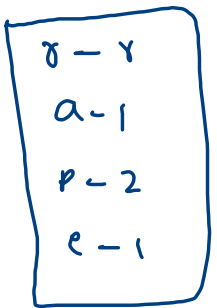
[pepper, repepp],

[rapper]

]



→ pepper, repepp

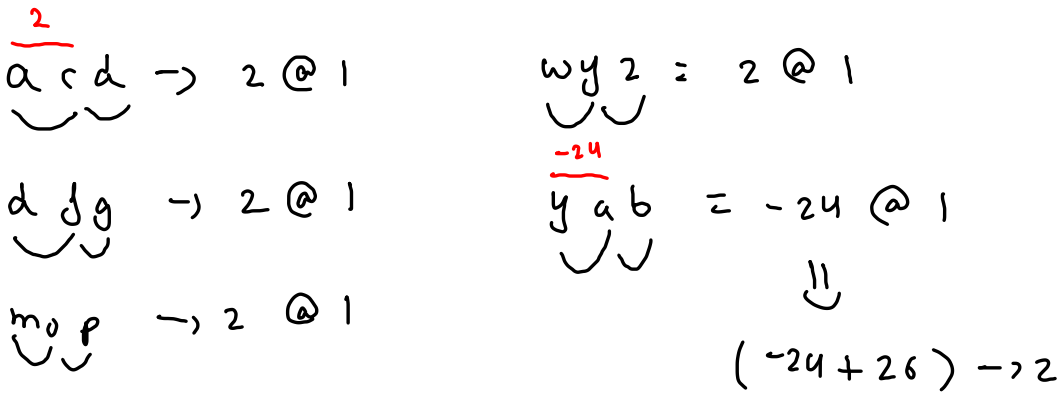


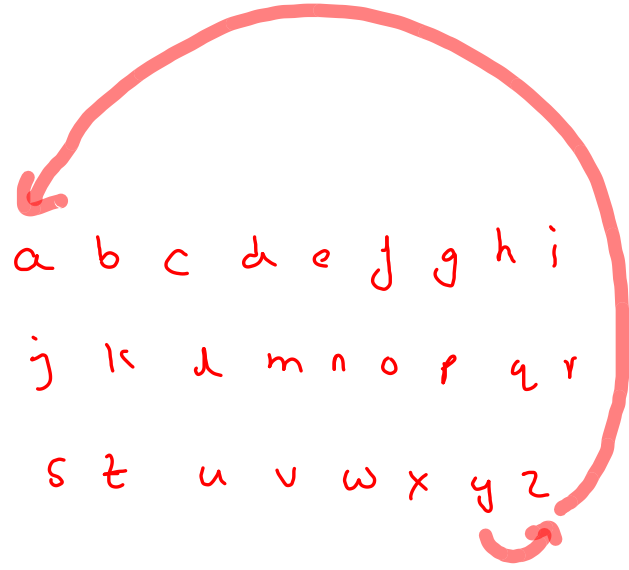
→ rapper

Group Shifted String

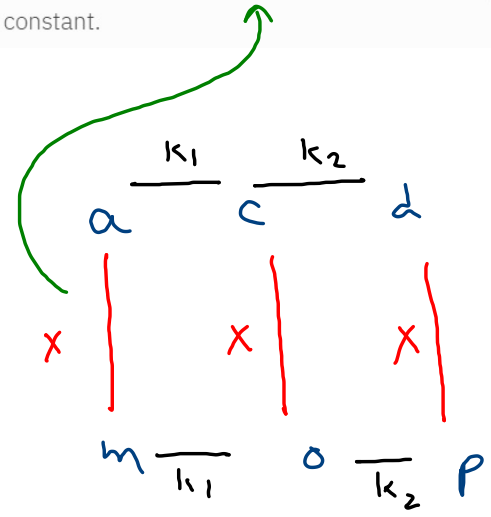
9
acd dfg wyz yab mop bdfh a x moqs

acd dfg mop wyz yab
a x
bdfh moqs





3. Two strings s1 and s2 are shifted if -
-> Length of both the strings is the same.
-> The difference between ASCII values of every character of s1 and s2 is constant.

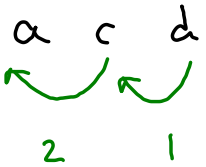


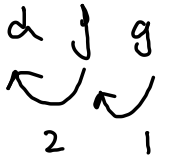
$c - a = k_1$

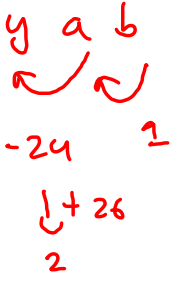
$o - m = (c + x) - (a + x) = c - a = k_1$

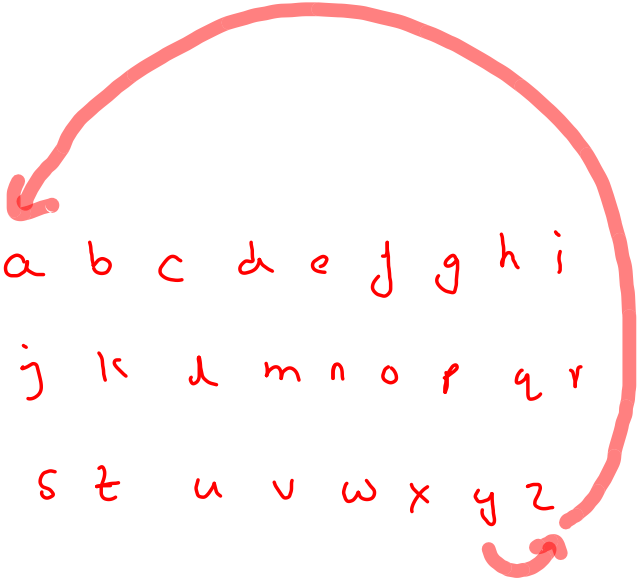
9

acd dfg wyz yab mop bdfh a x moqs





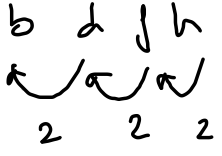


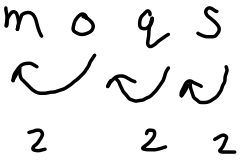


2 @ 1 → a cd, dfg, wyz, yab, mop

2 @ 2 @ 2 → bdfh, moqs

. → a, x

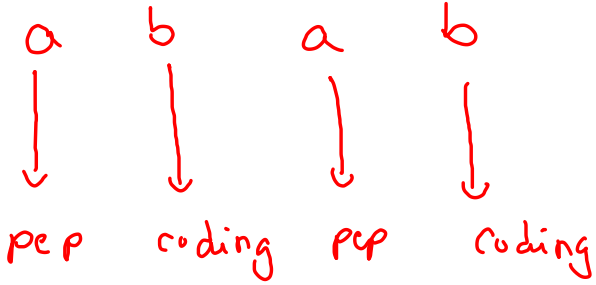




one on one mapping

Word Pattern

abab
pep coding pep coding



char vs string

a - pep

b - coding

hs

pep
coding

a b c b

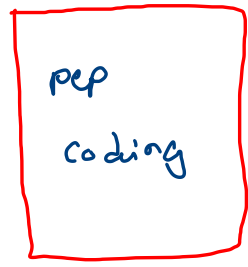
pep coding pep coding

char vs string

a - pep

b - coding

hs



return false

a b a b a

pep coding pep coding tea

char vs string

a - pep

b - coding

hs

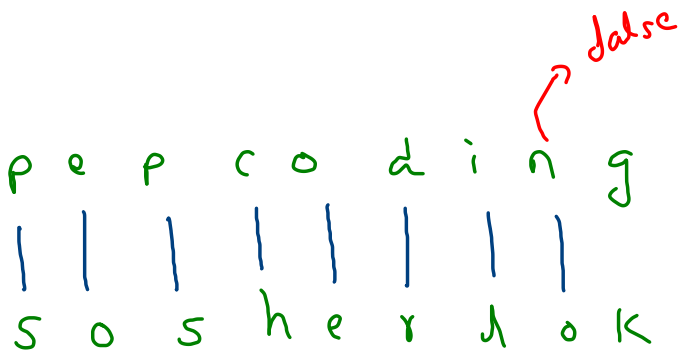
pep

coding

return false

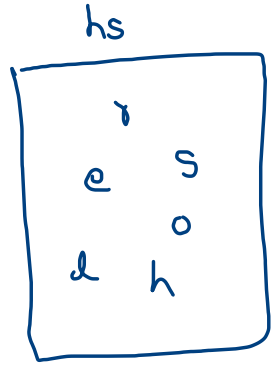
Isomorphic Strings

pepcoding
sosherlok

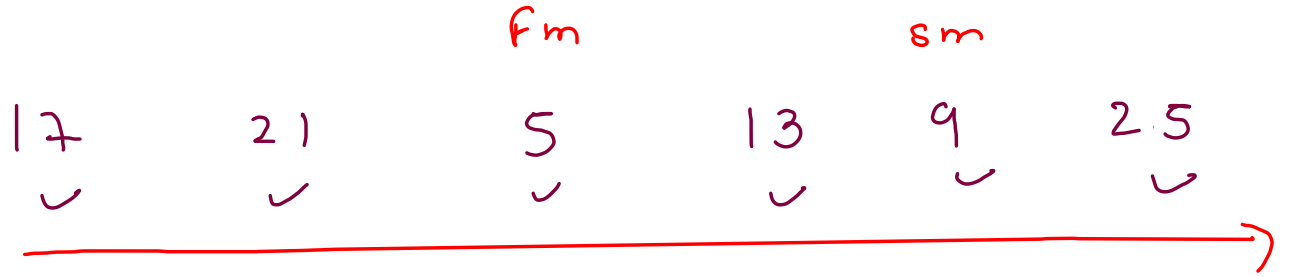


char vs char

p - s
e - o
c - h
o - e
d - r
i - l



1502. Can Make Arithmetic Progression From Sequence



5 to

5 + 4 = 9

9 + 4 = 13

13 + 4 = 17

17 + 4 = 21

21 + 4 = 25