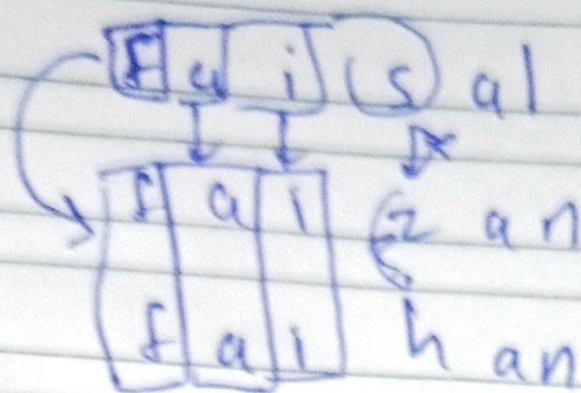


Longest common prefix

S = { "Faisal", "Faizan", "Faizan" }

Famous  
Page No.  
Date: / /

• Brute force:



ans → fa  
ai

• optimal approach →

T/P

sort

F a i s a l

F a i z a n

F a i h a n

F a i

F a i h a n

F a i s a l

F a i z a n

F a i

ans → F a i

steps: 1) sort T/P str

2) comp first & last char. by char.

ans → fa



0 1 2 3 4 size  
 0 f a i z a → 5  
 1 f a i z a → 5

Famous  
 Page No.   
 Date:

ans  
 f  
 fa  
 fai  
 faiz  
 faiz

i  
 o  
 k  
 2  
 3  
 4

S1 S2  
 a k  
 f f✓  
 a a✓  
 i i✓  
 z z✓

4 ✓

(nlg n)