(4) Longest common prefix-
1. Question
Longest common prefix string amongst an
array of strings
If there is no common prefix, seems
empty string (663)
2. Examples-
stry = [flower, flow, flight]
\rightarrow
storez [dog, racecar, car]
$ \xrightarrow{66} \stackrel{9}{\cancel{}} $
3. Intuition/Concept/Solutions-
1. [flower, flow, flight]
11-1
prefixi
perefix 2
(fe)
get Common Porefix (S1, S2)
Stz anvikuma/SZZ anju
- make (s1) as smaller of two Horizontally
- S1 z anju S2 z anyjkuma

S22 anxikuma ~anju, >>(0,2) S1. substring (0, i) // i=0; return 667) flower, flow, flight (81. substraing (0, i) 5) > Time complexity-O(sum of all characters OC sum of all characters in all

6) - Code wallethrough storing ICP ([]story) & (if (struszz mill) 2 ereturn 667); if (storsolength = 20) { oreturn 66 m; String perefine stristo]; for ((i21); i < strus length; i+=1) { prefinz gCP (prefix, stry (i)); return prefini) storing gCP (SI, SZ) if (SI. length()< (&1).len return q CP (\$2, s1); 11 S2. length ()==0) & if (SIolength () 220 retion 667). int 1203 while (i < \$1. length ()) { if (SI. charAt(i)! z SQ. charAt(i) SI. sulestein retur

return S1; 21 au s2

3

"apple", SS(0,3)