1048 longest String Chavin
Dynamic Programming Approach
eg: ["" "b", "ba", "bca", "bda", "bda"] ["" "b", "ba", "bca", "bda", "bd
Given list of strings Step! set then in increasing order
of their lengths
step? a east a 4[] away of len = len(words)
Find word/vords of manimum length find word/vords of manimum length per dp (] of war words = 1
Example 1 a" "ba" "ba" "bda" "bda" "bda" bda" bda

dp[x] = Max (1+dp[y] roud (y) of borgth 3 say word [x] is of lugge 2 if prosecting one charaction had [x]
makes hard [x] = word (y) = MAX / 1+ dp[2], a for ay 2 where ler (word (z)=x+1) and this Sont forget undition is souristified as this single element can also be the conver

 $dp(4) = {\binom{mm}{1}} + dp(5),$ = 2 $dp(3) = mAx \left(1+dp(5)\right)$ Logica = 2 $d_{1}(2) = max \left(\frac{1 + dp(3)}{1 + dp(4)}, \frac{b \leq 9}{b \neq a} = 3 \right)$ $d\rho(1) = \max\left(1 + d\rho(2)\right)^{\frac{1}{2}} =$ $d\rho(0) = M\pi \times (1 + 4\rho(2)) = 4$ / return max (fp)