1.6 String Compression - Write a function to compress a String using char counts anabb cdd >a362c1d2

Parameters (String: compress) Return (compressed string or original) Simplest Problem OUT "a" IN " " OUT "" IN> "aa'b" OUT > " mab" > "nab" IN > "agaic bbbd c" OUT > "a3 c2b3d1c1" Patterns 1. Bruinstorm -Only check if there is more than one occurrence in a row.

-Use a flag

Solutions Separate array If curr = prev inc count append count count =0 append cur

Notes

- Final count was not added because loop terminated. - When ever you check a previous Element instead is

Time Space C(N) O(N)

- Never call strings 's tr - Never add two strings, append

them separately to a list.

- Don't use extend unless you already have a list

Code def compress(str): if len(str) = 2: return str

comp = [].append(str[0]) Count = 1

for i in rungellen(str)) if str[i]==str[i-1]: count +=1

count = 0
comp.append(etrEi])
comp.append(count)

if (len(str) < len(comp)); return str

return comp