Question statement (5):

Return the longest contiguous substring of 2 distinct characters from an input string.

Example

input: abbaacab output : abbaa

input: abcefabbabaabefghghfa

return: abbabaab

input: aabceddddcdccecabceftg return: ddddcdcc

input: acbabbcbca return: bbcbc

.) understanding:

Question (5)

J. durtily e) finding the longest orprecting Substrung Define Goal .) the returned string has to bour these characteristics: -) contain 2 distinct Churacters -) the characters must be adjacent to one onether in original string -) il there are moltiple substrings with the above 2 qualities return the longest substring . This problem is really 2 composed of & b-preblus

-) finding particular kinds of substrings -) of all the substrings fame return the longest 2 xplorte 1 -ct A- ntic pote 1 -ct Arrowy Duke's 1) Examples by how -) abbaa,cab -) ab ce labbabababefghghfa * w/ enery perss weeking for a 3rd new letter -) aabceddddcdccecabceftg LIL IL IL IL LILLU

2) white down what I did e) made multiple passes through original to create all the possible sob strings -) created substrings bested on the 2 eviteria e) looked for longest substring 2) her Josepher Josepher accepted the Ist 2 chers encountered and stop steved that substring " areated new substring starting @ the invex of the new ·) repeated the process above at (dti) ontil, moving the beginning point formand into the army untile the original string so

3) find patterns e) if a substring was already in the Set of substrings then didn't store it. A.) if a substring is a substring of another substring then it can also be ignored Men reach Deomparing string to lengths - My the Sub algo to construct Substrings can be modified -) Still, repeated increment through the array by advencing the starting point through the index -) instead of constructing all substrings do this: okay it the substring is longer than
the corr max Subtring then replace the

[1] Examples by Hare Jabbaacab Low Substring I'm new Sobstring = ["abbaci"] corr Max Sub. length () < new Sub. length () then corrner Sub = new Sub new SubString = ["bb aa"]
not longer than corr Max Sub nSS = ["baa" not longer nss - What I "acca" NSS= laca" not longer nss= [" ab" not longer more pointer forward translate to code 6) Debuilon test cases Deby test cases