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Question 1

**a) [X, Y | Z] and [p, q, r, s, t | [u, v, Y] ]**

RS = [p, q, r, s, t, u, v, Y]

= [p, q | [r, s, t, u, v, Y]]

X = p

Y = q

Z = [r, s, t, u, v, Y]

Therefore, the lists can be made identical.

**b) [a, [Y | [b,c]], d] and [a, [b, [b,c]] | Z]**

LS = [a, [Y | [b,c]] | [d]]

RS = [a, [b | [[b,c]] | Z]

Y = b

Z = [d]

But [b,c] cannot match to [[b,c]]

Therefore, the lists cannot be made identical.

**c) [yyz | [yow | [yyc | [yvr | [yul | [YEG] ] ] ] ] ] and [A1, A2 | A3]**

= [yyz | [yow | [yyc | [yvr | [yul, YEG] ] ] ] ]

= [yyz | [yow | [yyc | [yvr, yul, YEG ] ] ] ]

= [yyz | [yow | [yyc, yvr, yul, YEG ] ] ]

= [yyz | [yow, yyc, yvr, yul, YEG ] ]

= [yyz, yow, yyc, yvr, yul, YEG ]

= [yyz, yow | [yyc, yvr, yul, YEG ] ]

A1 = yyz

A2 = yow

A3 = [yyc, yvr, yul, YEG]

Therefore, the lists can be made identical.

Text, letter

Description automatically generated

Text

Description automatically generated

Text

Description automatically generated