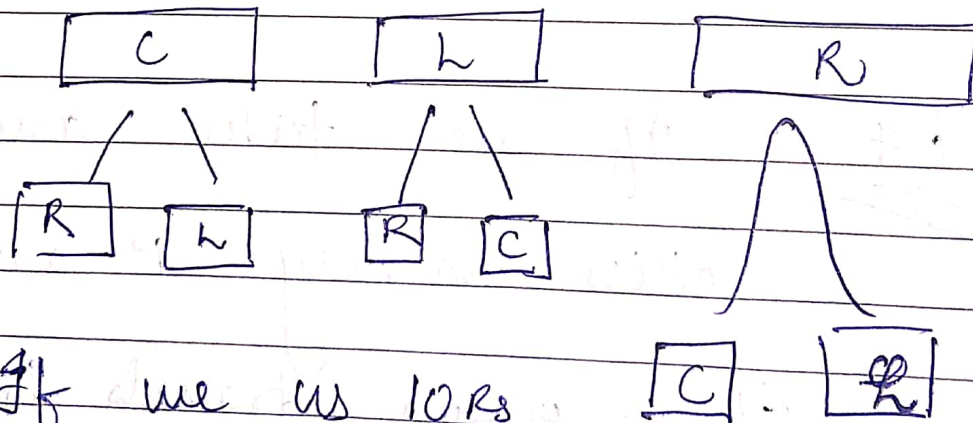


Q6

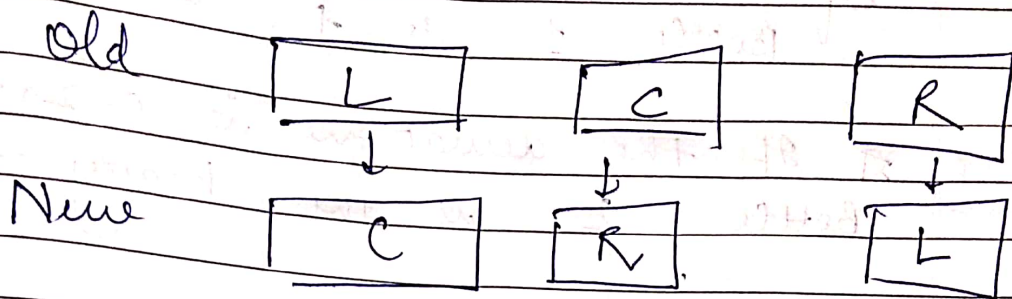


If we use IORs on the Random Button, we will get either Coke or limca. If we get limca then, Available possibility of coke Button

will be rejected which concludes that the Coke Button is Random

As only coke is left

So himca Button is for Coke



So only after 10 Rs we are able to tell which Button gives which Selection.

Q7 If we take any 2 cities namely P and Q.

If a person travels from P to Q in the morning then

There should be a flight Q to P in the evening

Date _____
Page _____

If a person travels from Q to P in the morning then a flight from P to Q should be available for him to reach back.

So for any 2 cities we need 4 flights

$$\begin{aligned} \text{Then min no. of direct flights} &= {}^{10}C_2 \times 4 \\ &= 180 \end{aligned}$$

Q8 The code will be EVC because only this one contains a letter ~~to~~ (i.e. V) which is not repeated in other codes thus we can tell the no. of vowels.

Q9

P				
	S	Q	R	

tallest doll \rightarrow P

Q10

$$N < O < M < K < L < J < Z$$