**Why does repeaters are not used in transport layer?**

Hey! Lets first have an overview of what actually is the work of repeater : A repeater connects two segments of your network cable. It re-times and regenerates the signal to proper amplitudes and sends them to the other segments.

Now lets come to the question- **Why does repeaters are not used in transport layer?**

-> Repeaters require a small amount of time to regenerate the signal. This can cause a propagation delay which can affect network communication when there are several repeaters in a row.

Due to this, many network architectures limit the number of repeaters that can be used in a row. Repeaters work only at the physical layer of the OSI network model.

Explanation with an example:

Suppose the range of your network is from point A to B. Now you need to extend the same network to a further point C.

A----------B---------C. This is where the need of repeater comes into consideration. All you need to do is just activate a repeater within the region AB and as per the desired range, the same network will get amplified and will get extended till C without any distortion.