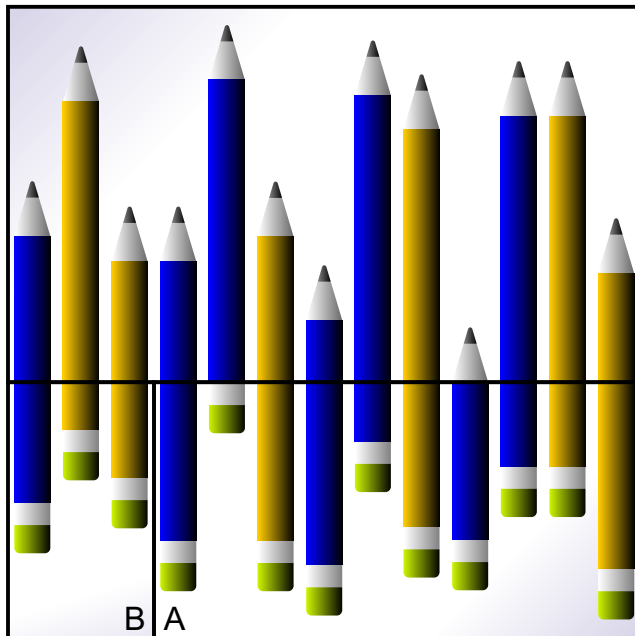
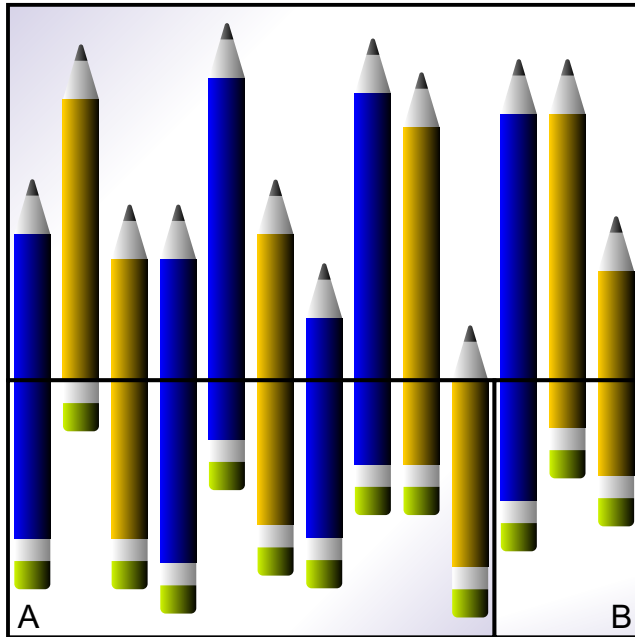


This interesting diagram shows a number of yellow and blue pencils.

More interesting is that when the pieces A and B are exchanged in relation to the larger top piece a yellow pencil suddenly disappears. The question is what happens with the exchange?



In fact the yellow pencil "disappears" in such a way that the remaining six yellow pencils in total become a little bit longer, while instead of the "missing" yellow pencil a blue one appears resulting in the seven blue pencils now instead of the initial six ones.