477 Invent an example of concurrent composition for which there are two reasonable ways to partition the variables that give different meanings to the composition. Hint: the operands of the concurrent composition don't have to be programs.

After trying the question, scroll down to the solution.

§ Let the variable be $x$ . Then

$$ok \parallel \top$$

means either $x'=x$ or $\top$ depending on whether $x$ is put in the left part or the right part. Here is a more elaborate example. Let the variables be $x$ , $y$ , and $z$ of type integer. Then

$$x:= x+1 \parallel y' = y+2$$

means either $x'=x+1 \land y'=y+2 \land z'=z$ or $x'=x+1 \land y'=y+2$ depending on whether $z$ is put in the left part or the right part.