

497 Let  $a$  and  $b$  be boundary variables; assignment to them takes time 0 . Let assignment to interactive variables take time 1 . Let  $t$  be extended natural time. Define

**wait**  $w = t := t + w$

Simplify

**new**  $x: time \rightarrow nat \cdot (x := 1. x := 2) \parallel (a := 3. \mathbf{wait} 1. b := a + x. \mathbf{wait} 1. a := b + x)$

After trying the question, scroll down to the solution.

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$$a'=6 \wedge b'=4$$