As in Exercise 515, let $W$ be “wait for input on channel $c$ and then read it”, except that if input is still not available by a deadline, an alarm should be raised.

$$W \iff \text{if } t \leq \text{deadline then if } \sqrt{c} \text{ then } c? \text{ else } t := t+1. \text{ W fi else alarm fi}$$

Define $W$ appropriately, and prove the refinement.