(input with timeout) As in Exercise 466, 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.

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

Define \( W \) appropriately, and prove the refinement.