Write a program to repeatedly print the current time, up until some given time.

Assuming time is an extended integer, and the given time is \( k \), including recursive time, the specification is

\[
P = w' = w + \max(0, k-t) \land t' = t + \max(0, k-t)
\land \forall n: 0..\max(0, k-t) \cdot \mathcal{M}_{w+n} = \mathcal{T}_{w+n} = t+n
\]

and the refinement is

\[
P \iff \text{if } t < k \text{ then } c! \ t := t + 1 \ \text{P else } \text{ok fi}
\]