506 Write a program to print the sequence of natural numbers, one per time unit.

After trying the question, scroll down to the solution.

Either we define P and Q by  $P = \forall n: nat \cdot \mathcal{M}_{w+n} = n \land \mathcal{T}_{w+n} = t+n$   $Q = \forall n: nat \cdot \mathcal{M}_{w+n} = n+m \land \mathcal{T}_{w+n} = t+n$ and refine them by  $P \Leftarrow m := 0. Q$  $Q \Leftarrow c! m. m := m+1. t := t+1. Q$ 

or we define P and Q by equations similar to the above implications.