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We seek an $\mathbf{s} \in S^N$ that satisfies $F(\mathbf{s}) = \mathbf{s}$.

Such an **s** is called a fixed

We would like the fixed point to exist and be unique. And we would like a constructive procedure to find it.

It is the behaviour of the



























- The emphasis of synchronous composition, in contrast with threads, is on determinate and analysable concurrency.
- Although there are subtleties with synchronous programs, all constructive synchronous programs have a unique and well-defined meaning.
- Automated tools can systematically explore all possible behaviours. This is not possible in general with threads.

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