

The set L of strings

Let L be a set of strings over $\{0, 1\}$ defined recursively by:

- ▶ $1 \in L$
- ▶ If $x \in L$ then $x10 \in L$
- ▶ If $x \in L$ then $x0 \in L$

Questions to class:

1. Is $0 \in L$?
2. Is $11 \in L$?
3. Is $10110 \in L$?
4. Find all strings of length up to 3 that are in L .
5. Give one string in L of length 10.