DP algorithm to determine if $x \in L$, continued

If the length of x is at most 2, we return True if and only if $x \in \{1, 10\}$.

For all other strings x, we will compute an array M[1...n] where n is the length of x, and where

$$M[i] = True \text{ if and only if } x[1...i] \in L.$$

We will then return M[n]!

Basic challenge: how shall we calculate the array M?