Homework #1



The Turing machine was defined by M:

* + 1. If the cursor meet the `0’ symbol, than accept the string x.
    2. Else if the cursor meet the `1’ symbol at the end of the string x, than reject the string.
    3. Otherwise move the cursor to the right, go back to step 1.



By observation of function . We can argue can determine by several terms. First, we need to know the current cursor’s position, that is .

If , than .

Else we need to know , because they are the inputs of function.

The other information, , is redundant.