

Homework 1 – Problem #2

Strings in the set:

10101100110011

11001100110011

Strings not in the set:

11010101001010

10100110101001

Set notation:

$L(m) = \{w \mid w = w_1 w_2 \dots w_n \text{ if } w_1 = w_2, \text{ then } w_3 \text{ through } w_n = \{00|11\}^*\}$

Regular expression:

$0|1((00)^*|(11)^*)$