FCS Midterm Q4

- (a) 101101
- (b) 10011000
- (c) The automaton starts with state A, on which it stays as long as it reads 1 from the input string.

Once it reads 0, it moves to state B on which it stays as long as it reads 0 from the input string.

Once it reads 1, it moves to state C on which it stays as long as it reads 1 from the input string.

Once it reads 0, it moves to state D on which it stays as long as it reads 0 from the input string.

Once it reads 1, it moves to the accepting state E, on which it stays forever.

(d) $1*0+1+0+1(0 \cup 1)*$

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