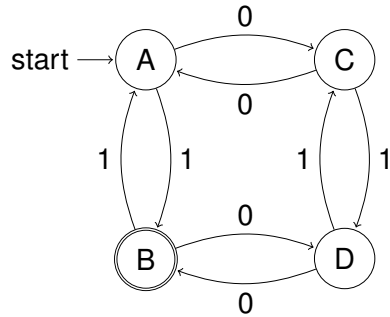


### 1. Problem

Consider the following automaton with initial state A and accepting state B:



Which of the following sequences are accepted?

- (a) 1010011
- (b) 01011
- (c) 00100
- (d) 1101
- (e) 111110

### Solution

The given automaton accepts input strings which consist of an odd number of ones and even number of zeros.

- (a) Not accepted
- (b) Accepted
- (c) Accepted
- (d) Not accepted
- (e) Not accepted