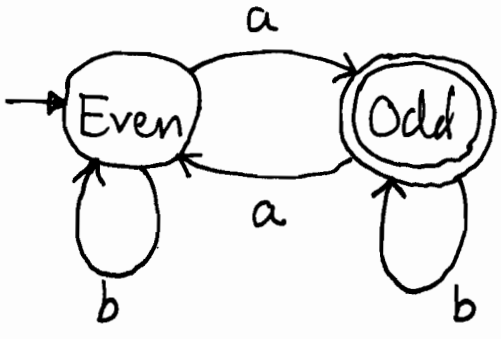
CST IA 2001
p2, q1d

AMP

Regular Languages and Finite Automata

Draw a picture of a deterministic finite automaton with set of input symbols $\{a, b\}$ whose language of accepted strings consists of all strings containing an odd number of occurrences of the symbol a. [4 marks]

Answer:



- 1 mark if all the ingredients of a FDA are drawn.
- 2 marks if the FDA drawn has correct language.
- 1 mark for some indication why the solution is correct (eg. labelling states with names indicating invariant properties, as above).