

# AQA Computer Science A Level

## 3.4.2 Finite state machines (FSMs)

Flashcards



What shape represents a state  
in a finite state diagram?



What shape represents a state in a finite state diagram?

A circle



What name is given to the rules that describe what a finite state machine should do given certain criteria?



What name is given to the rules that describe what a finite state machine should do given certain criteria?

Transition functions



How are transition functions represented  
in state transition diagrams?



How are transition functions represented in state transition diagrams?

Arrows between states



What signifies an accepting state in a state transition diagram?



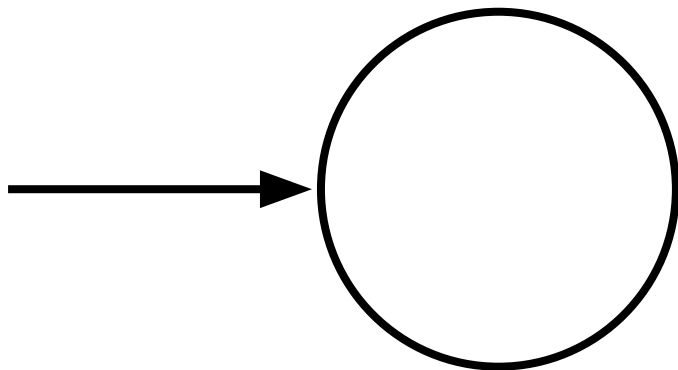


What signifies an accepting state in a state transition diagram?

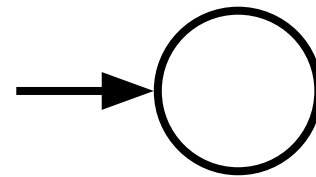
A double circle



What does this symbol represent in a state transition diagram?



What does this symbol represent in a state transition diagram?

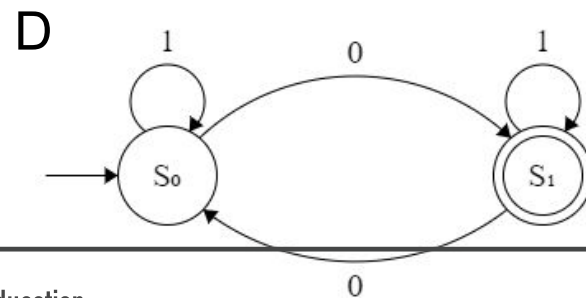
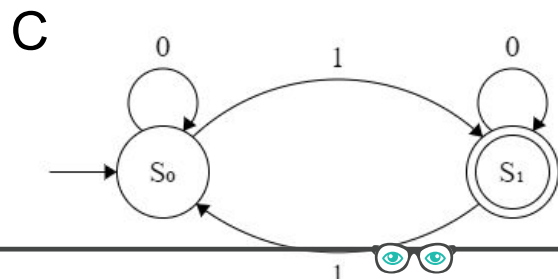
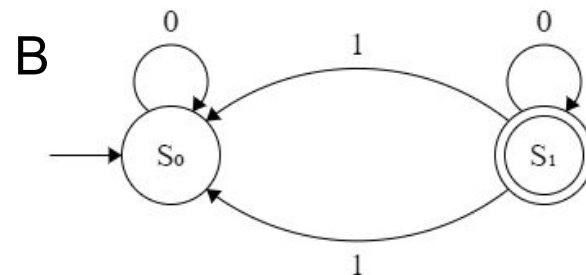
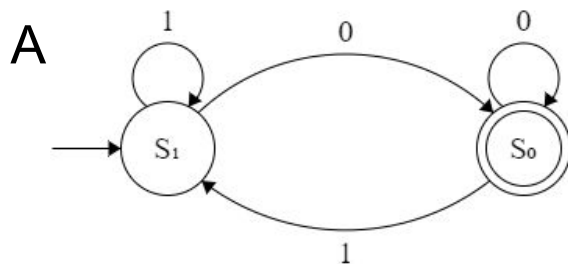


The start state



# Which state transition diagram is equivalent to this state transition table?

Current state	Input	Next state
$S_0$	1	$S_1$
$S_0$	0	$S_0$
$S_1$	1	$S_0$
$S_1$	0	$S_1$



Which state transition diagram is equivalent to the state transition table?

C

