

CS375 WK7

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Figure 1: Q01: FA

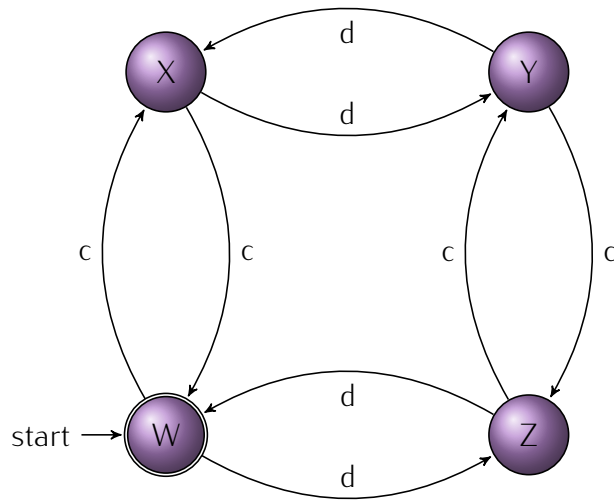


Figure 2: Q01: PDA

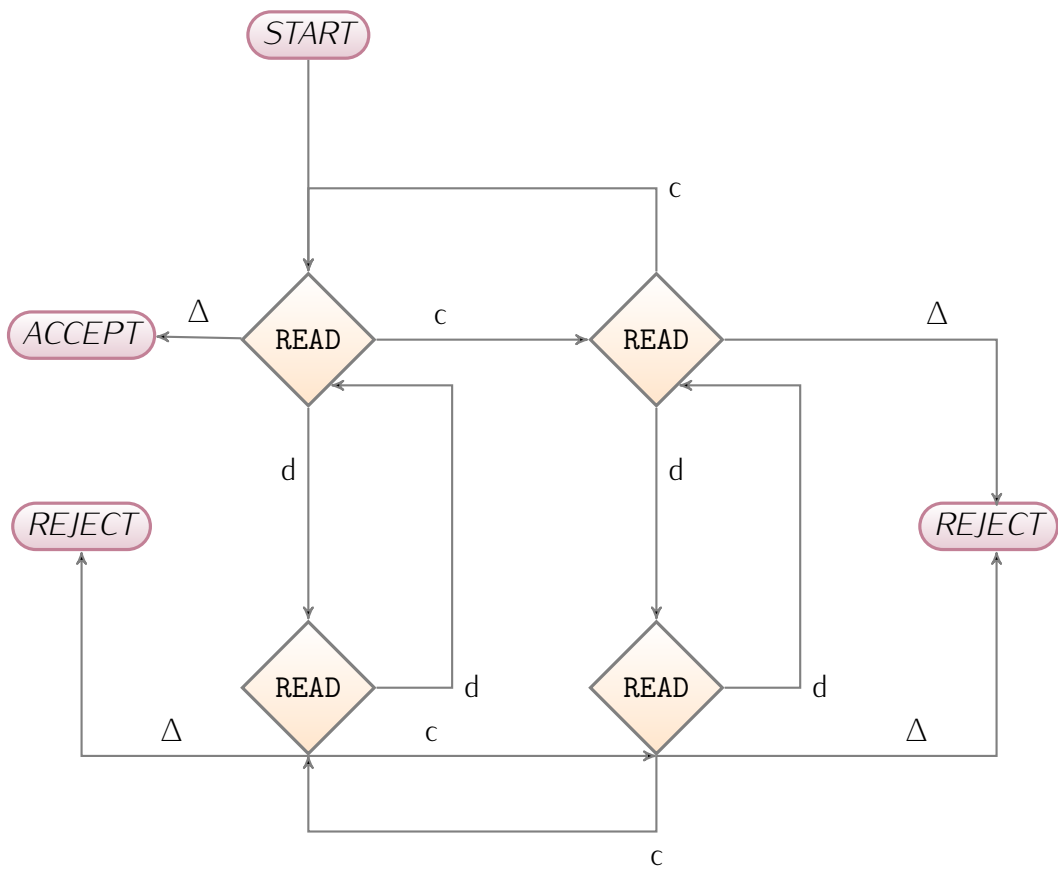


Figure 3: Q02: FA

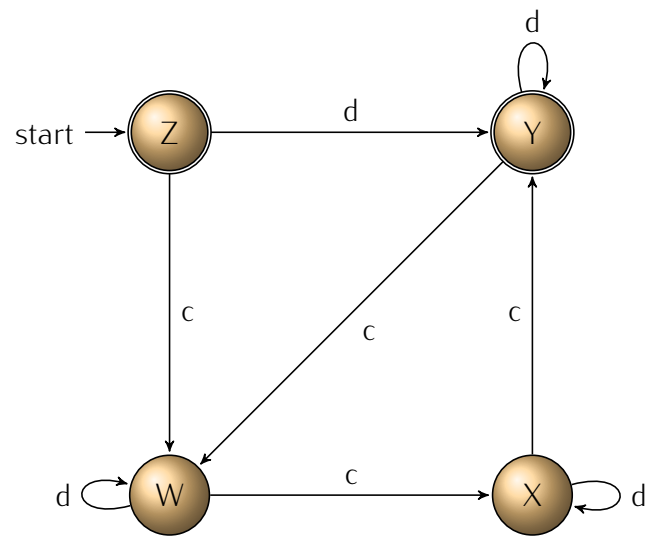


Figure 4: Q02: PDA

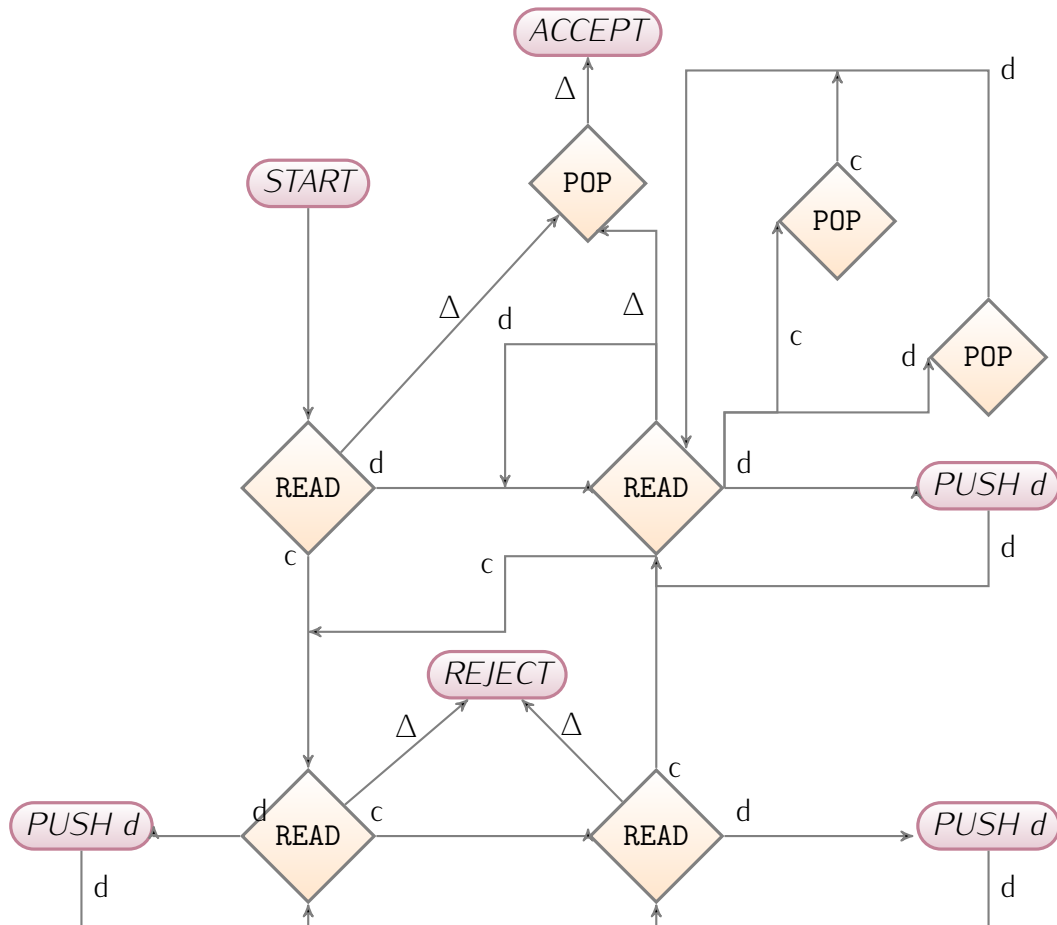


Figure 5: Q03a: Conversion Form

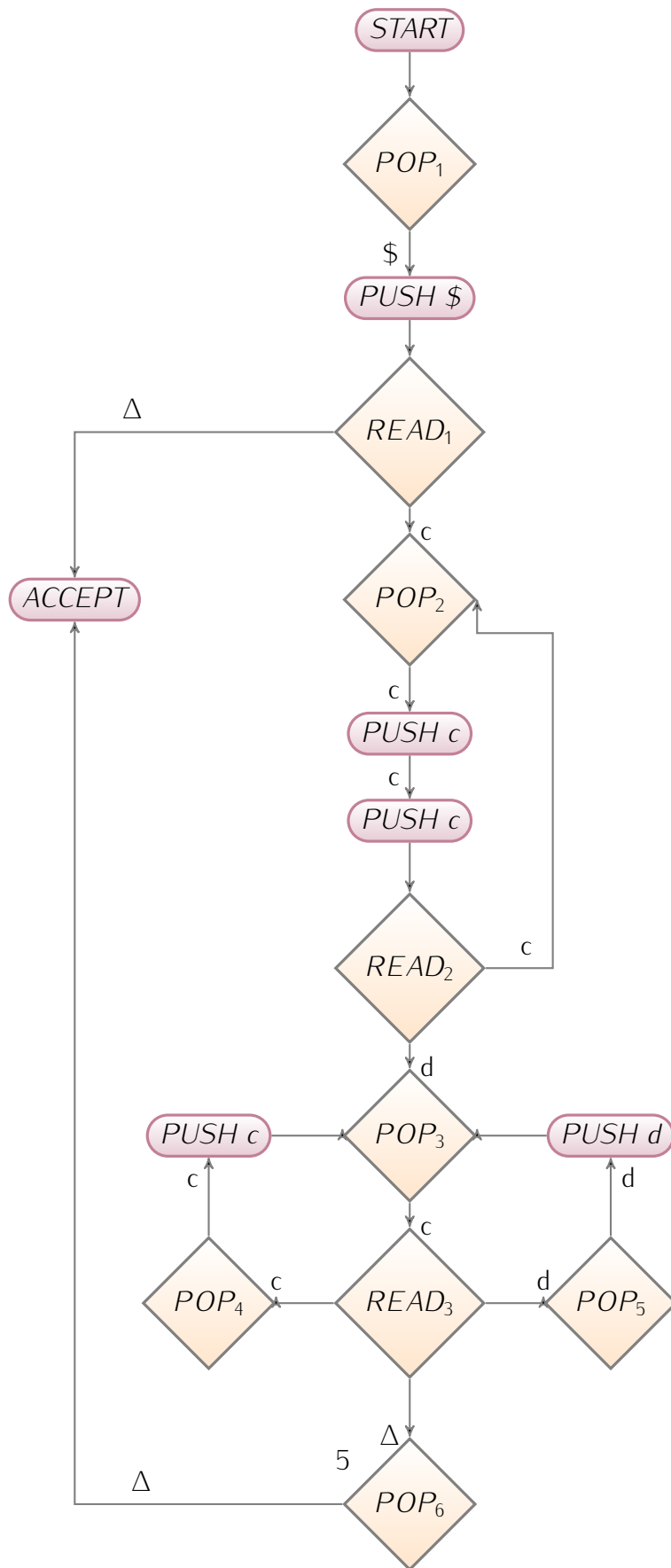


Figure 6: Q03.b

STATE	STACK	TAPE
Start	Δ	c c c d d d d
$Read_1$	Δ	c c c d d d d
Push	$c\Delta$	c c c d d d d
$Read_2$	$c\Delta$	c c c d d d d
Push	$cc\Delta$	c c c d d d d
$Read_2$	$cc\Delta$	c c c d d d d
Push	$ccc\Delta$	c c c c d d d d
$Read_2$	$ccc\Delta$	c c c c d d d d
Pop	$cc\Delta$	c c c d d d d
$Read_3$	$cc\Delta$	c c c d d d d
Pop	$c\Delta$	c c c d d d d
$Read_3$	$c\Delta$	c c c d d d d
Pop	Δ	c c c d d d d
$Read_3$	Δ	c c c d d d d
Pop	Δ	c c c d d d d
Accept	Δ	c c c d d d d

Figure 7: Q03.c

STATE	STACK	TAPE
Start	Δ	c c c d c d
$Read_1$	Δ	c c c d c d
Push	$c\Delta$	c c c d c d
$Read_2$	$c\Delta$	c c c d c d
Push	$cc\Delta$	c c c d c d
$Read_2$	$cc\Delta$	c c c d c d
Push	$ccc\Delta$	c c c c d c d
$Read_2$	$ccc\Delta$	c c c c d c d
Pop	$cc\Delta$	c c c d c d
$Read_3$	$cc\Delta$	c c c d c d
Pop	$c\Delta$	c c c d c d
$Read_3$	$c\Delta$	c c c d c d
Pop	Δ	c c c d c d
$Read_3$	Δ	c c c d c d
Pop	Δ	c c c d c d
Accept	Δ	c c c d c d

Figure 8: Q03.d

STATE	STACK	TAPE
Start	Δ	c c c d c c
$Read_1$	Δ	c c c d c c
Push	$c\Delta$	c c c d c c
$Read_2$	$c\Delta$	c c c d c c
Push	$cc\Delta$	c c c d c c
$Read_2$	$cc\Delta$	c c c d c c
Push	$ccc\Delta$	c c c d c c
$Read_2$	$ccc\Delta$	c c c d c c
Pop	$cc\Delta$	c c c d c c
$Read_3$	$cc\Delta$	c c c d c c
Pop	$c\Delta$	c c c d c c
$Read_3$	$c\Delta$	c c c d c c
Pop	Δ	c c c d c c
$Read_3$	Δ	c c c d c c
Pop	Δ	c c c d c c
Accept	Δ	c c c d c c

Figure 9: Q03.e

STATE	STACK	TAPE
Start	Δ	c c c c d d a
$Read_1$	Δ	c c c c d d a
Push	$c\Delta$	c c c c d d a
$Read_2$	$c\Delta$	c c c c d d a
Push	$cc\Delta$	c c c c d d a
$Read_2$	$cc\Delta$	c c c c d d a
Push	$ccc\Delta$	c c c c d d a
$Read_2$	$ccc\Delta$	c c c c d d a
Push	$cccc\Delta$	c c c c c d d a
$Read_2$	$cccc\Delta$	c c c c c d d a
Pop	$ccc\Delta$	c c c c d d a
$Read_2$	$ccc\Delta$	c c c c d d a
Pop	$cc\Delta$	c c c c d d a
$Read_3$	$cc\Delta$	c c c c d d a
Pop	$c\Delta$	c c c c d d a
Reject	$c\Delta$	c c c c d d a