

CS375 WK7

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Figure 3: Q02: FA

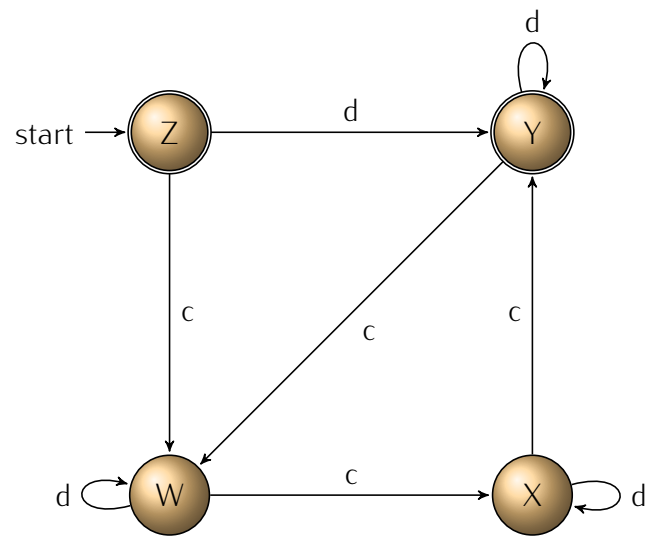


Figure 4: Q02: PDA

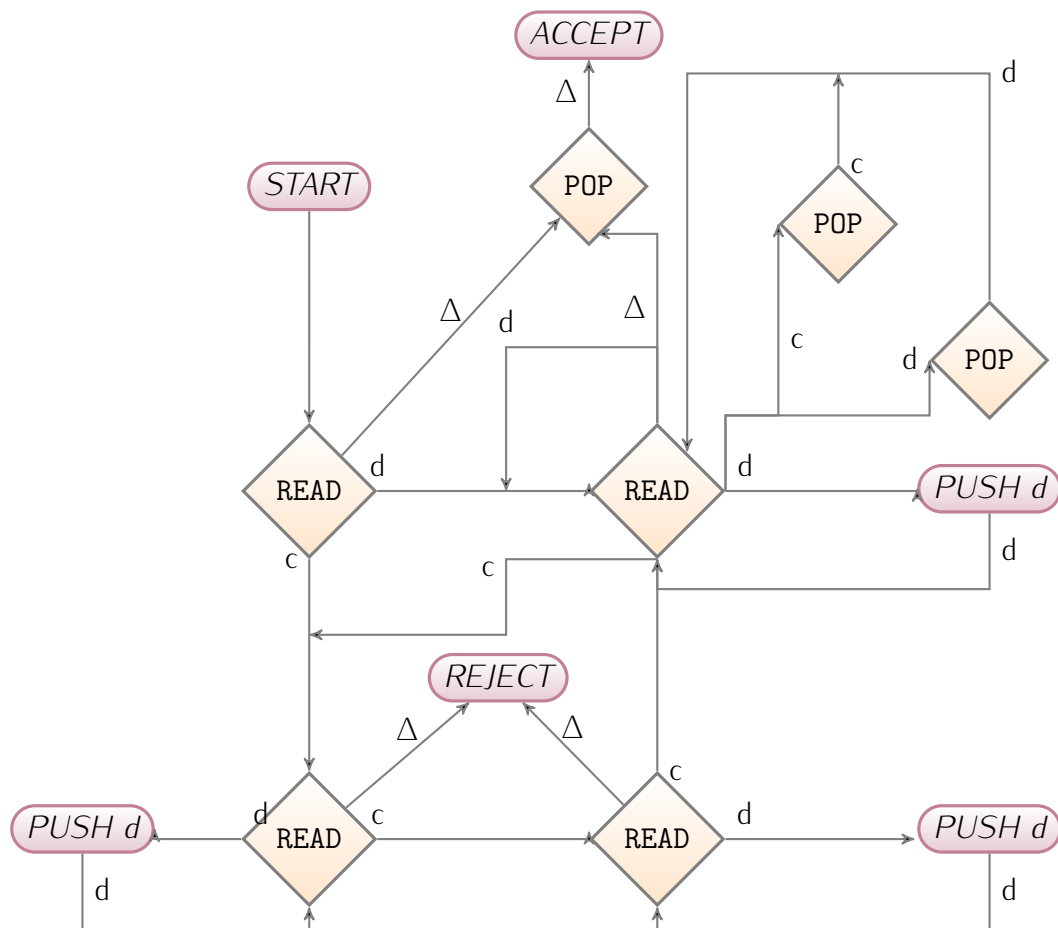


Figure 5: Q03.b

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

Figure 6: Q03.c

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

Figure 7: 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 8: Q03.e

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