

# CS375 WK7

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```
graph TD
    START([START]) --> D1{READ}
    D1 -- c --> D2{READ}
    D1 -- d --> D3{READ}
    D2 -- c --> ACCEPT([ACCEPT])
    D2 -- d --> D3
    D3 -- c --> D2
    D3 -- d --> REJECT1([REJECT])
    D4{READ} --> D5{READ}
    D4 -- d --> D6{READ}
    D5 -- c --> REJECT2([REJECT])
    D5 -- d --> D6
    D6 -- c --> D5
    D6 -- d --> REJECT3([REJECT])
    REJECT1 -- Δ --> D4
    REJECT2 -- Δ --> D4
    REJECT3 -- Δ --> D4
```

Figure 3: Q02: FA

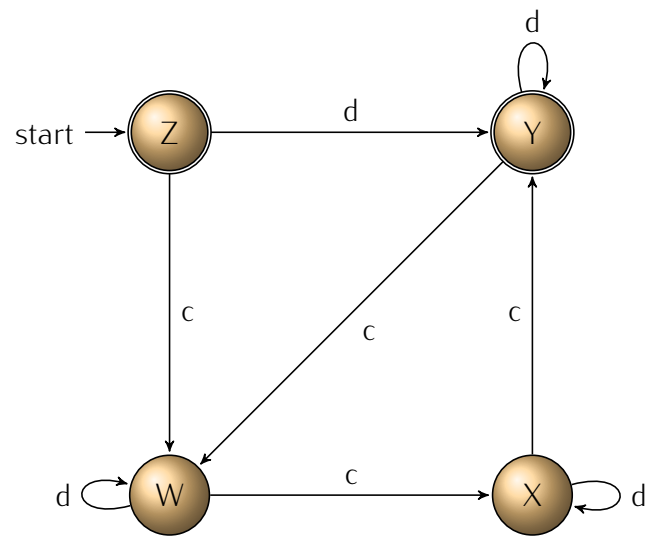


Figure 4: Q02: PDA

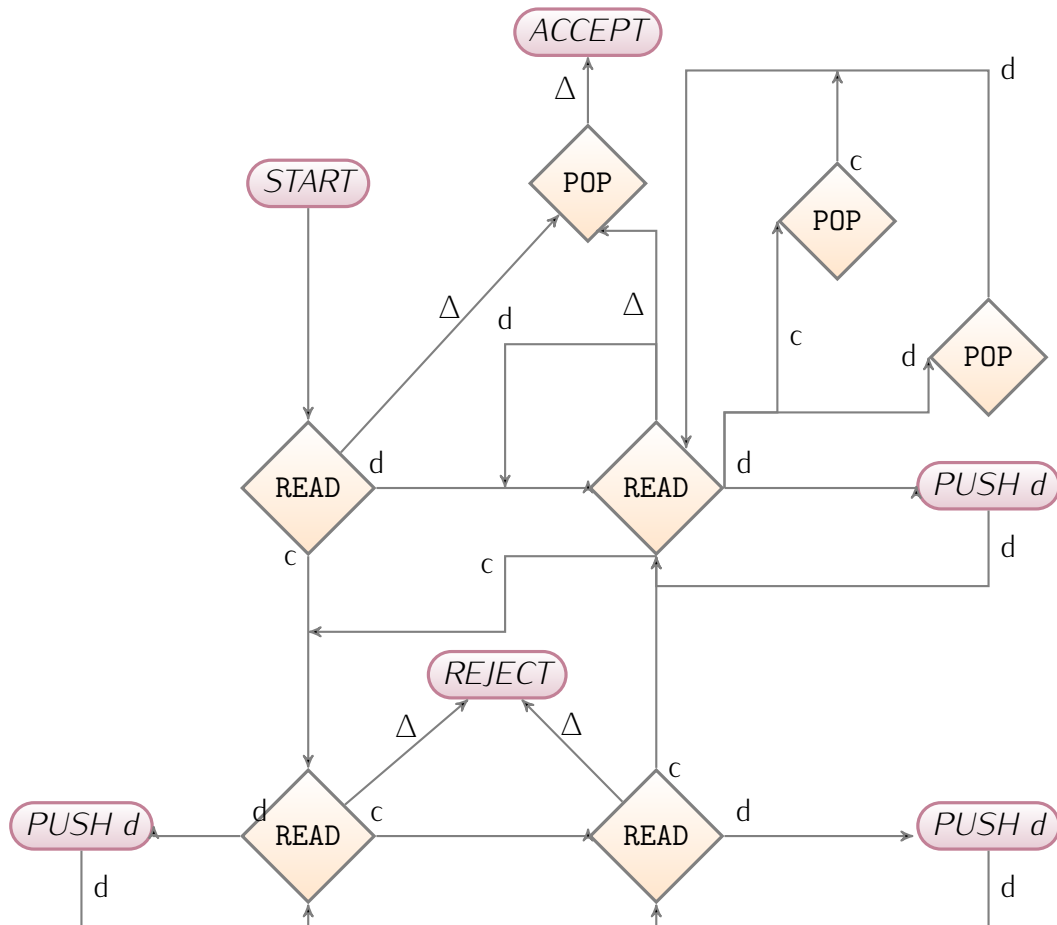


Figure 5: Q03a: Conversion Form

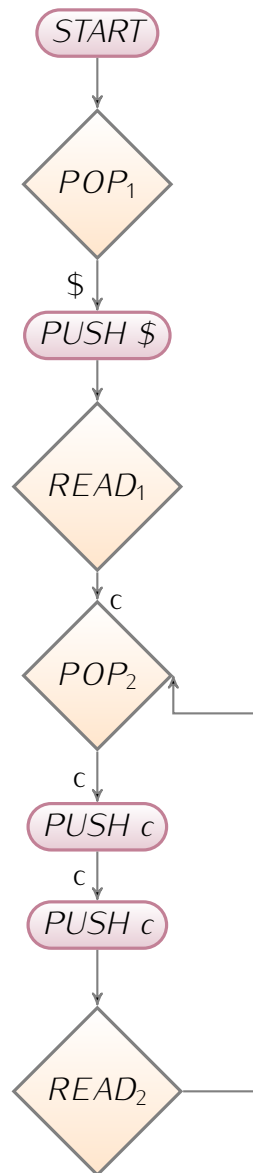


Figure 6: Q03.b

STATE	STACK	TAPE
Start	$\Delta$	<span style="border: 1px solid black; padding: 0 2px;">c</span> <span style="border: 1px solid black; padding: 0 2px;">c</span> <span style="border: 1px solid black; padding: 0 2px;">c</span> <span style="border: 1px solid black; padding: 0 2px;">d</span> <span style="border: 1px solid black; padding: 0 2px;">d</span> <span style="border: 1px solid black; padding: 0 2px;">d</span> <span style="border: 1px solid black; padding: 0 2px;">a</span>
$Read_1$	$\Delta$	<span style="border: 1px solid black; padding: 0 2px;">c</span> <span style="border: 1px solid black; padding: 0 2px;">c</span> <span style="border: 1px solid black; padding: 0 2px;">c</span> <span style="border: 1px solid black; padding: 0 2px;">d</span> <span style="border: 1px solid black; padding: 0 2px;">d</span> <span style="border: 1px solid black; padding: 0 2px;">d</span> <span style="border: 1px solid black; padding: 0 2px;">a</span>
Push	$c\Delta$	<span style="border: 1px solid black; padding: 0 2px;">c</span> <span style="border: 1px solid black; padding: 0 2px;">c</span> <span style="border: 1px solid black; padding: 0 2px;">c</span> <span style="border: 1px solid black; padding: 0 2px;">d</span> <span style="border: 1px solid black; padding: 0 2px;">d</span> <span style="border: 1px solid black; padding: 0 2px;">d</span> <span style="border: 1px solid black; padding: 0 2px;">a</span>
$Read_2$	$c\Delta$	<span style="border: 1px solid black; padding: 0 2px;">c</span> <span style="border: 1px solid black; padding: 0 2px;">c</span> <span style="border: 1px solid black; padding: 0 2px;">c</span> <span style="border: 1px solid black; padding: 0 2px;">d</span> <span style="border: 1px solid black; padding: 0 2px;">d</span> <span style="border: 1px solid black; padding: 0 2px;">d</span> <span style="border: 1px solid black; padding: 0 2px;">a</span>
Push	$cc\Delta$	<span style="border: 1px solid black; padding: 0 2px;">c</span> <span style="border: 1px solid black; padding: 0 2px;">c</span> <span style="border: 1px solid black; padding: 0 2px;">c</span> <span style="border: 1px solid black; padding: 0 2px;">d</span> <span style="border: 1px solid black; padding: 0 2px;">d</span> <span style="border: 1px solid black; padding: 0 2px;">d</span> <span style="border: 1px solid black; padding: 0 2px;">a</span>
$Read_2$	$cc\Delta$	<span style="border: 1px solid black; padding: 0 2px;">c</span> <span style="border: 1px solid black; padding: 0 2px;">c</span> <span style="border: 1px solid black; padding: 0 2px;">c</span> <span style="border: 1px solid black; padding: 0 2px;">d</span> <span style="border: 1px solid black; padding: 0 2px;">d</span> <span style="border: 1px solid black; padding: 0 2px;">d</span> <span style="border: 1px solid black; padding: 0 2px;">a</span>
Push	$ccc\Delta$	<span style="border: 1px solid black; padding: 0 2px;">c</span> <span style="border: 1px solid black; padding: 0 2px;">c</span> <span style="border: 1px solid black; padding: 0 2px;">c</span> <span style="border: 1px solid black; padding: 0 2px;">c</span> <span style="border: 1px solid black; padding: 0 2px;">d</span> <span style="border: 1px solid black; padding: 0 2px;">d</span> <span style="border: 1px solid black; padding: 0 2px;">d</span> <span style="border: 1px solid black; padding: 0 2px;">a</span>
$Read_2$	$ccc\Delta$	<span style="border: 1px solid black; padding: 0 2px;">c</span> <span style="border: 1px solid black; padding: 0 2px;">c</span> <span style="border: 1px solid black; padding: 0 2px;">c</span> <span style="border: 1px solid black; padding: 0 2px;">c</span> <span style="border: 1px solid black; padding: 0 2px;">d</span> <span style="border: 1px solid black; padding: 0 2px;">d</span> <span style="border: 1px solid black; padding: 0 2px;">d</span> <span style="border: 1px solid black; padding: 0 2px;">a</span>
Pop	$cc\Delta$	<span style="border: 1px solid black; padding: 0 2px;">c</span> <span style="border: 1px solid black; padding: 0 2px;">c</span> <span style="border: 1px solid black; padding: 0 2px;">c</span> <span style="border: 1px solid black; padding: 0 2px;">d</span> <span style="border: 1px solid black; padding: 0 2px;">d</span> <span style="border: 1px solid black; padding: 0 2px;">d</span> <span style="border: 1px solid black; padding: 0 2px;">a</span>
$Read_3$	$cc\Delta$	<span style="border: 1px solid black; padding: 0 2px;">c</span> <span style="border: 1px solid black; padding: 0 2px;">c</span> <span style="border: 1px solid black; padding: 0 2px;">c</span> <span style="border: 1px solid black; padding: 0 2px;">d</span> <span style="border: 1px solid black; padding: 0 2px;">d</span> <span style="border: 1px solid black; padding: 0 2px;">d</span> <span style="border: 1px solid black; padding: 0 2px;">a</span>
Pop	$c\Delta$	<span style="border: 1px solid black; padding: 0 2px;">c</span> <span style="border: 1px solid black; padding: 0 2px;">c</span> <span style="border: 1px solid black; padding: 0 2px;">c</span> <span style="border: 1px solid black; padding: 0 2px;">d</span> <span style="border: 1px solid black; padding: 0 2px;">d</span> <span style="border: 1px solid black; padding: 0 2px;">d</span> <span style="border: 1px solid black; padding: 0 2px;">a</span>
$Read_3$	$c\Delta$	<span style="border: 1px solid black; padding: 0 2px;">c</span> <span style="border: 1px solid black; padding: 0 2px;">c</span> <span style="border: 1px solid black; padding: 0 2px;">c</span> <span style="border: 1px solid black; padding: 0 2px;">d</span> <span style="border: 1px solid black; padding: 0 2px;">d</span> <span style="border: 1px solid black; padding: 0 2px;">d</span> <span style="border: 1px solid black; padding: 0 2px;">a</span>
Pop	$\Delta$	<span style="border: 1px solid black; padding: 0 2px;">c</span> <span style="border: 1px solid black; padding: 0 2px;">c</span> <span style="border: 1px solid black; padding: 0 2px;">c</span> <span style="border: 1px solid black; padding: 0 2px;">d</span> <span style="border: 1px solid black; padding: 0 2px;">d</span> <span style="border: 1px solid black; padding: 0 2px;">d</span> <span style="border: 1px solid black; padding: 0 2px;">a</span>
$Read_3$	$\Delta$	<span style="border: 1px solid black; padding: 0 2px;">c</span> <span style="border: 1px solid black; padding: 0 2px;">c</span> <span style="border: 1px solid black; padding: 0 2px;">c</span> <span style="border: 1px solid black; padding: 0 2px;">d</span> <span style="border: 1px solid black; padding: 0 2px;">d</span> <span style="border: 1px solid black; padding: 0 2px;">d</span> <span style="border: 1px solid black; padding: 0 2px;">a</span>
Pop	$\Delta$	<span style="border: 1px solid black; padding: 0 2px;">c</span> <span style="border: 1px solid black; padding: 0 2px;">c</span> <span style="border: 1px solid black; padding: 0 2px;">c</span> <span style="border: 1px solid black; padding: 0 2px;">d</span> <span style="border: 1px solid black; padding: 0 2px;">d</span> <span style="border: 1px solid black; padding: 0 2px;">d</span> <span style="border: 1px solid black; padding: 0 2px;">a</span>
Accept	$\Delta$	<span style="border: 1px solid black; padding: 0 2px;">c</span> <span style="border: 1px solid black; padding: 0 2px;">c</span> <span style="border: 1px solid black; padding: 0 2px;">c</span> <span style="border: 1px solid black; padding: 0 2px;">d</span> <span style="border: 1px solid black; padding: 0 2px;">d</span> <span style="border: 1px solid black; padding: 0 2px;">d</span> <span style="border: 1px solid black; padding: 0 2px;">a</span>

Figure 7: Q03.c

STATE	STACK	TAPE
Start	$\Delta$	<span style="border: 1px solid black; padding: 0 2px;">c</span> <span style="border: 1px solid black; padding: 0 2px;">c</span> <span style="border: 1px solid black; padding: 0 2px;">c</span> <span style="border: 1px solid black; padding: 0 2px;">d</span> <span style="border: 1px solid black; padding: 0 2px;">c</span> <span style="border: 1px solid black; padding: 0 2px;">d</span>
$Read_1$	$\Delta$	<span style="border: 1px solid black; padding: 0 2px;">c</span> <span style="border: 1px solid black; padding: 0 2px;">c</span> <span style="border: 1px solid black; padding: 0 2px;">c</span> <span style="border: 1px solid black; padding: 0 2px;">d</span> <span style="border: 1px solid black; padding: 0 2px;">c</span> <span style="border: 1px solid black; padding: 0 2px;">d</span>
Push	$c\Delta$	<span style="border: 1px solid black; padding: 0 2px;">c</span> <span style="border: 1px solid black; padding: 0 2px;">c</span> <span style="border: 1px solid black; padding: 0 2px;">c</span> <span style="border: 1px solid black; padding: 0 2px;">d</span> <span style="border: 1px solid black; padding: 0 2px;">c</span> <span style="border: 1px solid black; padding: 0 2px;">d</span>
$Read_2$	$c\Delta$	<span style="border: 1px solid black; padding: 0 2px;">c</span> <span style="border: 1px solid black; padding: 0 2px;">c</span> <span style="border: 1px solid black; padding: 0 2px;">c</span> <span style="border: 1px solid black; padding: 0 2px;">d</span> <span style="border: 1px solid black; padding: 0 2px;">c</span> <span style="border: 1px solid black; padding: 0 2px;">d</span>
Push	$cc\Delta$	<span style="border: 1px solid black; padding: 0 2px;">c</span> <span style="border: 1px solid black; padding: 0 2px;">c</span> <span style="border: 1px solid black; padding: 0 2px;">c</span> <span style="border: 1px solid black; padding: 0 2px;">d</span> <span style="border: 1px solid black; padding: 0 2px;">c</span> <span style="border: 1px solid black; padding: 0 2px;">d</span>
$Read_2$	$cc\Delta$	<span style="border: 1px solid black; padding: 0 2px;">c</span> <span style="border: 1px solid black; padding: 0 2px;">c</span> <span style="border: 1px solid black; padding: 0 2px;">c</span> <span style="border: 1px solid black; padding: 0 2px;">d</span> <span style="border: 1px solid black; padding: 0 2px;">c</span> <span style="border: 1px solid black; padding: 0 2px;">d</span>
Push	$ccc\Delta$	<span style="border: 1px solid black; padding: 0 2px;">c</span> <span style="border: 1px solid black; padding: 0 2px;">c</span> <span style="border: 1px solid black; padding: 0 2px;">c</span> <span style="border: 1px solid black; padding: 0 2px;">c</span> <span style="border: 1px solid black; padding: 0 2px;">d</span> <span style="border: 1px solid black; padding: 0 2px;">c</span> <span style="border: 1px solid black; padding: 0 2px;">d</span>
$Read_2$	$ccc\Delta$	<span style="border: 1px solid black; padding: 0 2px;">c</span> <span style="border: 1px solid black; padding: 0 2px;">c</span> <span style="border: 1px solid black; padding: 0 2px;">c</span> <span style="border: 1px solid black; padding: 0 2px;">c</span> <span style="border: 1px solid black; padding: 0 2px;">d</span> <span style="border: 1px solid black; padding: 0 2px;">c</span> <span style="border: 1px solid black; padding: 0 2px;">d</span>
Pop	$cc\Delta$	<span style="border: 1px solid black; padding: 0 2px;">c</span> <span style="border: 1px solid black; padding: 0 2px;">c</span> <span style="border: 1px solid black; padding: 0 2px;">c</span> <span style="border: 1px solid black; padding: 0 2px;">d</span> <span style="border: 1px solid black; padding: 0 2px;">c</span> <span style="border: 1px solid black; padding: 0 2px;">d</span>
$Read_3$	$cc\Delta$	<span style="border: 1px solid black; padding: 0 2px;">c</span> <span style="border: 1px solid black; padding: 0 2px;">c</span> <span style="border: 1px solid black; padding: 0 2px;">c</span> <span style="border: 1px solid black; padding: 0 2px;">d</span> <span style="border: 1px solid black; padding: 0 2px;">c</span> <span style="border: 1px solid black; padding: 0 2px;">d</span>
Pop	$c\Delta$	<span style="border: 1px solid black; padding: 0 2px;">c</span> <span style="border: 1px solid black; padding: 0 2px;">c</span> <span style="border: 1px solid black; padding: 0 2px;">c</span> <span style="border: 1px solid black; padding: 0 2px;">d</span> <span style="border: 1px solid black; padding: 0 2px;">c</span> <span style="border: 1px solid black; padding: 0 2px;">d</span>
$Read_3$	$c\Delta$	<span style="border: 1px solid black; padding: 0 2px;">c</span> <span style="border: 1px solid black; padding: 0 2px;">c</span> <span style="border: 1px solid black; padding: 0 2px;">c</span> <span style="border: 1px solid black; padding: 0 2px;">d</span> <span style="border: 1px solid black; padding: 0 2px;">c</span> <span style="border: 1px solid black; padding: 0 2px;">d</span>
Pop	$\Delta$	<span style="border: 1px solid black; padding: 0 2px;">c</span> <span style="border: 1px solid black; padding: 0 2px;">c</span> <span style="border: 1px solid black; padding: 0 2px;">c</span> <span style="border: 1px solid black; padding: 0 2px;">d</span> <span style="border: 1px solid black; padding: 0 2px;">c</span> <span style="border: 1px solid black; padding: 0 2px;">d</span>
$Read_3$	$\Delta$	<span style="border: 1px solid black; padding: 0 2px;">c</span> <span style="border: 1px solid black; padding: 0 2px;">c</span> <span style="border: 1px solid black; padding: 0 2px;">c</span> <span style="border: 1px solid black; padding: 0 2px;">d</span> <span style="border: 1px solid black; padding: 0 2px;">c</span> <span style="border: 1px solid black; padding: 0 2px;">d</span>
Pop	$\Delta$	<span style="border: 1px solid black; padding: 0 2px;">c</span> <span style="border: 1px solid black; padding: 0 2px;">c</span> <span style="border: 1px solid black; padding: 0 2px;">c</span> <span style="border: 1px solid black; padding: 0 2px;">d</span> <span style="border: 1px solid black; padding: 0 2px;">c</span> <span style="border: 1px solid black; padding: 0 2px;">d</span>
Accept	$\Delta$	<span style="border: 1px solid black; padding: 0 2px;">c</span> <span style="border: 1px solid black; padding: 0 2px;">c</span> <span style="border: 1px solid black; padding: 0 2px;">c</span> <span style="border: 1px solid black; padding: 0 2px;">d</span> <span style="border: 1px solid black; padding: 0 2px;">c</span> <span style="border: 1px solid black; padding: 0 2px;">d</span>

Figure 8: Q03.d

STATE	STACK	TAPE
Start	$\Delta$	<span style="border: 1px solid blue; padding: 0 2px;">c</span> <span style="border: 1px solid blue; padding: 0 2px;">c</span> <span style="border: 1px solid blue; padding: 0 2px;">c</span> <span style="border: 1px solid blue; padding: 0 2px;">d</span> <span style="border: 1px solid blue; padding: 0 2px;">c</span> <span style="border: 1px solid blue; padding: 0 2px;">c</span>
$Read_1$	$\Delta$	<span style="border: 1px solid blue; padding: 0 2px;">c</span> <span style="border: 1px solid blue; padding: 0 2px;">c</span> <span style="border: 1px solid blue; padding: 0 2px;">c</span> <span style="border: 1px solid blue; padding: 0 2px;">d</span> <span style="border: 1px solid blue; padding: 0 2px;">c</span> <span style="border: 1px solid blue; padding: 0 2px;">c</span>
Push	$c\Delta$	<span style="border: 1px solid blue; padding: 0 2px;">c</span> <span style="border: 1px solid blue; padding: 0 2px;">c</span> <span style="border: 1px solid blue; padding: 0 2px;">c</span> <span style="border: 1px solid blue; padding: 0 2px;">d</span> <span style="border: 1px solid blue; padding: 0 2px;">c</span> <span style="border: 1px solid blue; padding: 0 2px;">c</span>
$Read_2$	$c\Delta$	<span style="border: 1px solid blue; padding: 0 2px;">c</span> <span style="border: 1px solid blue; padding: 0 2px;">c</span> <span style="border: 1px solid blue; padding: 0 2px;">c</span> <span style="border: 1px solid blue; padding: 0 2px;">d</span> <span style="border: 1px solid blue; padding: 0 2px;">c</span> <span style="border: 1px solid blue; padding: 0 2px;">c</span>
Push	$cc\Delta$	<span style="border: 1px solid blue; padding: 0 2px;">c</span> <span style="border: 1px solid blue; padding: 0 2px;">c</span> <span style="border: 1px solid blue; padding: 0 2px;">c</span> <span style="border: 1px solid blue; padding: 0 2px;">d</span> <span style="border: 1px solid blue; padding: 0 2px;">c</span> <span style="border: 1px solid blue; padding: 0 2px;">c</span>
$Read_2$	$cc\Delta$	<span style="border: 1px solid blue; padding: 0 2px;">c</span> <span style="border: 1px solid blue; padding: 0 2px;">c</span> <span style="border: 1px solid blue; padding: 0 2px;">c</span> <span style="border: 1px solid blue; padding: 0 2px;">d</span> <span style="border: 1px solid blue; padding: 0 2px;">c</span> <span style="border: 1px solid blue; padding: 0 2px;">c</span>
Push	$ccc\Delta$	<span style="border: 1px solid blue; padding: 0 2px;">c</span> <span style="border: 1px solid blue; padding: 0 2px;">c</span> <span style="border: 1px solid blue; padding: 0 2px;">c</span> <span style="border: 1px solid blue; padding: 0 2px;">d</span> <span style="border: 1px solid blue; padding: 0 2px;">c</span> <span style="border: 1px solid blue; padding: 0 2px;">c</span>
$Read_2$	$ccc\Delta$	<span style="border: 1px solid blue; padding: 0 2px;">c</span> <span style="border: 1px solid blue; padding: 0 2px;">c</span> <span style="border: 1px solid blue; padding: 0 2px;">c</span> <span style="border: 1px solid blue; padding: 0 2px;">d</span> <span style="border: 1px solid blue; padding: 0 2px;">c</span> <span style="border: 1px solid blue; padding: 0 2px;">c</span>
Pop	$cc\Delta$	<span style="border: 1px solid blue; padding: 0 2px;">c</span> <span style="border: 1px solid blue; padding: 0 2px;">c</span> <span style="border: 1px solid blue; padding: 0 2px;">c</span> <span style="border: 1px solid blue; padding: 0 2px;">d</span> <span style="border: 1px solid blue; padding: 0 2px;">c</span> <span style="border: 1px solid blue; padding: 0 2px;">c</span>
$Read_3$	$cc\Delta$	<span style="border: 1px solid blue; padding: 0 2px;">c</span> <span style="border: 1px solid blue; padding: 0 2px;">c</span> <span style="border: 1px solid blue; padding: 0 2px;">c</span> <span style="border: 1px solid blue; padding: 0 2px;">d</span> <span style="border: 1px solid blue; padding: 0 2px;">c</span> <span style="border: 1px solid blue; padding: 0 2px;">c</span>
Pop	$c\Delta$	<span style="border: 1px solid blue; padding: 0 2px;">c</span> <span style="border: 1px solid blue; padding: 0 2px;">c</span> <span style="border: 1px solid blue; padding: 0 2px;">c</span> <span style="border: 1px solid blue; padding: 0 2px;">d</span> <span style="border: 1px solid blue; padding: 0 2px;">c</span> <span style="border: 1px solid blue; padding: 0 2px;">c</span>
$Read_3$	$c\Delta$	<span style="border: 1px solid blue; padding: 0 2px;">c</span> <span style="border: 1px solid blue; padding: 0 2px;">c</span> <span style="border: 1px solid blue; padding: 0 2px;">c</span> <span style="border: 1px solid blue; padding: 0 2px;">d</span> <span style="border: 1px solid blue; padding: 0 2px;">c</span> <span style="border: 1px solid blue; padding: 0 2px;">c</span>
Pop	$\Delta$	<span style="border: 1px solid blue; padding: 0 2px;">c</span> <span style="border: 1px solid blue; padding: 0 2px;">c</span> <span style="border: 1px solid blue; padding: 0 2px;">c</span> <span style="border: 1px solid blue; padding: 0 2px;">d</span> <span style="border: 1px solid blue; padding: 0 2px;">c</span> <span style="border: 1px solid blue; padding: 0 2px;">c</span>
$Read_3$	$\Delta$	<span style="border: 1px solid blue; padding: 0 2px;">c</span> <span style="border: 1px solid blue; padding: 0 2px;">c</span> <span style="border: 1px solid blue; padding: 0 2px;">c</span> <span style="border: 1px solid blue; padding: 0 2px;">d</span> <span style="border: 1px solid blue; padding: 0 2px;">c</span> <span style="border: 1px solid blue; padding: 0 2px;">c</span>
Pop	$\Delta$	<span style="border: 1px solid blue; padding: 0 2px;">c</span> <span style="border: 1px solid blue; padding: 0 2px;">c</span> <span style="border: 1px solid blue; padding: 0 2px;">c</span> <span style="border: 1px solid blue; padding: 0 2px;">d</span> <span style="border: 1px solid blue; padding: 0 2px;">c</span> <span style="border: 1px solid blue; padding: 0 2px;">c</span>
Accept	$\Delta$	<span style="border: 1px solid blue; padding: 0 2px;">c</span> <span style="border: 1px solid blue; padding: 0 2px;">c</span> <span style="border: 1px solid blue; padding: 0 2px;">c</span> <span style="border: 1px solid blue; padding: 0 2px;">d</span> <span style="border: 1px solid blue; padding: 0 2px;">c</span> <span style="border: 1px solid blue; padding: 0 2px;">c</span>

Figure 9: Q03.e

STATE	STACK	TAPE
Start	$\Delta$	<span style="border: 1px solid blue; padding: 0 2px;">c</span> <span style="border: 1px solid blue; padding: 0 2px;">c</span> <span style="border: 1px solid blue; padding: 0 2px;">c</span> <span style="border: 1px solid blue; padding: 0 2px;">c</span> <span style="border: 1px solid blue; padding: 0 2px;">d</span> <span style="border: 1px solid blue; padding: 0 2px;">d</span> <span style="border: 1px solid blue; padding: 0 2px;">a</span>
$Read_1$	$\Delta$	<span style="border: 1px solid blue; padding: 0 2px;">c</span> <span style="border: 1px solid blue; padding: 0 2px;">c</span> <span style="border: 1px solid blue; padding: 0 2px;">c</span> <span style="border: 1px solid blue; padding: 0 2px;">c</span> <span style="border: 1px solid blue; padding: 0 2px;">d</span> <span style="border: 1px solid blue; padding: 0 2px;">d</span> <span style="border: 1px solid blue; padding: 0 2px;">a</span>
Push	$c\Delta$	<span style="border: 1px solid blue; padding: 0 2px;">c</span> <span style="border: 1px solid blue; padding: 0 2px;">c</span> <span style="border: 1px solid blue; padding: 0 2px;">c</span> <span style="border: 1px solid blue; padding: 0 2px;">c</span> <span style="border: 1px solid blue; padding: 0 2px;">d</span> <span style="border: 1px solid blue; padding: 0 2px;">d</span> <span style="border: 1px solid blue; padding: 0 2px;">a</span>
$Read_2$	$c\Delta$	<span style="border: 1px solid blue; padding: 0 2px;">c</span> <span style="border: 1px solid blue; padding: 0 2px;">c</span> <span style="border: 1px solid blue; padding: 0 2px;">c</span> <span style="border: 1px solid blue; padding: 0 2px;">c</span> <span style="border: 1px solid blue; padding: 0 2px;">d</span> <span style="border: 1px solid blue; padding: 0 2px;">d</span> <span style="border: 1px solid blue; padding: 0 2px;">a</span>
Push	$cc\Delta$	<span style="border: 1px solid blue; padding: 0 2px;">c</span> <span style="border: 1px solid blue; padding: 0 2px;">c</span> <span style="border: 1px solid blue; padding: 0 2px;">c</span> <span style="border: 1px solid blue; padding: 0 2px;">c</span> <span style="border: 1px solid blue; padding: 0 2px;">d</span> <span style="border: 1px solid blue; padding: 0 2px;">d</span> <span style="border: 1px solid blue; padding: 0 2px;">a</span>
$Read_2$	$cc\Delta$	<span style="border: 1px solid blue; padding: 0 2px;">c</span> <span style="border: 1px solid blue; padding: 0 2px;">c</span> <span style="border: 1px solid blue; padding: 0 2px;">c</span> <span style="border: 1px solid blue; padding: 0 2px;">c</span> <span style="border: 1px solid blue; padding: 0 2px;">d</span> <span style="border: 1px solid blue; padding: 0 2px;">d</span> <span style="border: 1px solid blue; padding: 0 2px;">a</span>
Push	$ccc\Delta$	<span style="border: 1px solid blue; padding: 0 2px;">c</span> <span style="border: 1px solid blue; padding: 0 2px;">c</span> <span style="border: 1px solid blue; padding: 0 2px;">c</span> <span style="border: 1px solid blue; padding: 0 2px;">c</span> <span style="border: 1px solid blue; padding: 0 2px;">d</span> <span style="border: 1px solid blue; padding: 0 2px;">d</span> <span style="border: 1px solid blue; padding: 0 2px;">a</span>
$Read_2$	$ccc\Delta$	<span style="border: 1px solid blue; padding: 0 2px;">c</span> <span style="border: 1px solid blue; padding: 0 2px;">c</span> <span style="border: 1px solid blue; padding: 0 2px;">c</span> <span style="border: 1px solid blue; padding: 0 2px;">c</span> <span style="border: 1px solid blue; padding: 0 2px;">d</span> <span style="border: 1px solid blue; padding: 0 2px;">d</span> <span style="border: 1px solid blue; padding: 0 2px;">a</span>
Push	$cccc\Delta$	<span style="border: 1px solid blue; padding: 0 2px;">c</span> <span style="border: 1px solid blue; padding: 0 2px;">c</span> <span style="border: 1px solid blue; padding: 0 2px;">c</span> <span style="border: 1px solid blue; padding: 0 2px;">c</span> <span style="border: 1px solid blue; padding: 0 2px;">c</span> <span style="border: 1px solid blue; padding: 0 2px;">d</span> <span style="border: 1px solid blue; padding: 0 2px;">d</span> <span style="border: 1px solid blue; padding: 0 2px;">a</span>
$Read_2$	$cccc\Delta$	<span style="border: 1px solid blue; padding: 0 2px;">c</span> <span style="border: 1px solid blue; padding: 0 2px;">c</span> <span style="border: 1px solid blue; padding: 0 2px;">c</span> <span style="border: 1px solid blue; padding: 0 2px;">c</span> <span style="border: 1px solid blue; padding: 0 2px;">c</span> <span style="border: 1px solid blue; padding: 0 2px;">d</span> <span style="border: 1px solid blue; padding: 0 2px;">d</span> <span style="border: 1px solid blue; padding: 0 2px;">a</span>
Pop	$ccc\Delta$	<span style="border: 1px solid blue; padding: 0 2px;">c</span> <span style="border: 1px solid blue; padding: 0 2px;">c</span> <span style="border: 1px solid blue; padding: 0 2px;">c</span> <span style="border: 1px solid blue; padding: 0 2px;">c</span> <span style="border: 1px solid blue; padding: 0 2px;">d</span> <span style="border: 1px solid blue; padding: 0 2px;">d</span> <span style="border: 1px solid blue; padding: 0 2px;">a</span>
$Read_2$	$ccc\Delta$	<span style="border: 1px solid blue; padding: 0 2px;">c</span> <span style="border: 1px solid blue; padding: 0 2px;">c</span> <span style="border: 1px solid blue; padding: 0 2px;">c</span> <span style="border: 1px solid blue; padding: 0 2px;">c</span> <span style="border: 1px solid blue; padding: 0 2px;">d</span> <span style="border: 1px solid blue; padding: 0 2px;">d</span> <span style="border: 1px solid blue; padding: 0 2px;">a</span>
Pop	$cc\Delta$	<span style="border: 1px solid blue; padding: 0 2px;">c</span> <span style="border: 1px solid blue; padding: 0 2px;">c</span> <span style="border: 1px solid blue; padding: 0 2px;">c</span> <span style="border: 1px solid blue; padding: 0 2px;">c</span> <span style="border: 1px solid blue; padding: 0 2px;">d</span> <span style="border: 1px solid blue; padding: 0 2px;">d</span> <span style="border: 1px solid blue; padding: 0 2px;">a</span>
$Read_3$	$cc\Delta$	<span style="border: 1px solid blue; padding: 0 2px;">c</span> <span style="border: 1px solid blue; padding: 0 2px;">c</span> <span style="border: 1px solid blue; padding: 0 2px;">c</span> <span style="border: 1px solid blue; padding: 0 2px;">c</span> <span style="border: 1px solid blue; padding: 0 2px;">d</span> <span style="border: 1px solid blue; padding: 0 2px;">d</span> <span style="border: 1px solid blue; padding: 0 2px;">a</span>
Pop	$c\Delta$	<span style="border: 1px solid blue; padding: 0 2px;">c</span> <span style="border: 1px solid blue; padding: 0 2px;">c</span> <span style="border: 1px solid blue; padding: 0 2px;">c</span> <span style="border: 1px solid blue; padding: 0 2px;">c</span> <span style="border: 1px solid blue; padding: 0 2px;">d</span> <span style="border: 1px solid blue; padding: 0 2px;">d</span> <span style="border: 1px solid blue; padding: 0 2px;">a</span>
Reject	$c\Delta$	<span style="border: 1px solid blue; padding: 0 2px;">c</span> <span style="border: 1px solid blue; padding: 0 2px;">c</span> <span style="border: 1px solid blue; padding: 0 2px;">c</span> <span style="border: 1px solid blue; padding: 0 2px;">c</span> <span style="border: 1px solid blue; padding: 0 2px;">d</span> <span style="border: 1px solid blue; padding: 0 2px;">d</span> <span style="border: 1px solid blue; padding: 0 2px;">a</span>