Next State Actions

| Lbl_3 | Lbl_1 | Lbl_2 | Terminating |

$\wedge$ i = 1
$\wedge$ pc = "Lbl_1"
$\wedge$ max = -1
$\wedge$ output = TRUE
$\wedge$ indexFound = 1

$\wedge$ i = 1
$\wedge$ pc = "Lbl_2"
$\wedge$ max = 1
$\wedge$ output = TRUE
$\wedge$ indexFound = 1

$\wedge$ i = 2
$\wedge$ pc = "Lbl_2"
$\wedge$ max = 1
$\wedge$ output = TRUE
$\wedge$ indexFound = 1

$\wedge$ i = 3
$\wedge$ pc = "Lbl_2"
$\wedge$ max = 2
$\wedge$ output = TRUE
$\wedge$ indexFound = 2

$\wedge$ i = 4
$\wedge$ pc = "Lbl_2"
$\wedge$ max = 3
$\wedge$ output = TRUE
$\wedge$ indexFound = 3

$\wedge$ i = 5
$\wedge$ pc = "Lbl_2"
$\wedge$ max = 4
$\wedge$ output = TRUE
$\wedge$ indexFound = 4

$\wedge$ i = 1
$\wedge$ pc = "Lbl_3"
$\wedge$ max = 4
$\wedge$ output = TRUE
$\wedge$ indexFound = 4

$\wedge$ i = 2
$\wedge$ pc = "Lbl_3"
$\wedge$ max = 4
$\wedge$ output = TRUE
$\wedge$ indexFound = 4

$\wedge$ i = 3
$\wedge$ pc = "Lbl_3"
$\wedge$ max = 4
$\wedge$ output = TRUE
$\wedge$ indexFound = 4

$\wedge$ i = 4
$\wedge$ pc = "Lbl_3"
$\wedge$ max = 4
$\wedge$ output = FALSE
$\wedge$ indexFound = 4

$\wedge$ i = 5
$\wedge$ pc = "Lbl_3"
$\wedge$ max = 4
$\wedge$ output = FALSE
$\wedge$ indexFound = 4

$\wedge$ i = 5
$\wedge$ pc = "Done"
$\wedge$ max = 4
$\wedge$ output = FALSE
$\wedge$ indexFound = 4