



Initial Autonomous Mode

Determine: Robot Location, Drop-off Location

1	2	3	4
$\uparrow Y, \rightarrow X1$	$\rightarrow (X+X3+X2), \uparrow Y, \text{turn} \leftarrow$	$\rightarrow (X1 + X2), \uparrow Y1$	$\rightarrow (X + X3), \uparrow Y1$
$\leftarrow (X3 + X2), \uparrow Y, \text{turn} \rightarrow$	$\rightarrow (X3 + X2), \uparrow Y, \text{turn} \leftarrow$	$\leftarrow X3, \uparrow Y1$	$\rightarrow X3, \uparrow Y1$
$\leftarrow (X + X3 + X2), \uparrow Y, \text{turn} \rightarrow$	$\uparrow Y, \leftarrow X1$	$\leftarrow (X + X3), \uparrow Y1$	$\leftarrow (X1 + X2), \uparrow Y1$

Drop off block

Initial Autonomous Mode

Determine: Robot Location, Drop-off Location

1	2	3	4
$\uparrow Y, \rightarrow X1$	$\rightarrow (X+X3+X2), \uparrow Y, \text{turn} \leftarrow$	$\rightarrow (X1 + X2), \uparrow Y1$	$\rightarrow (X + X3), \uparrow Y1$
$\leftarrow (X3 + X2), \uparrow Y, \text{turn} \rightarrow$	$\rightarrow (X3 + X2), \uparrow Y, \text{turn} \leftarrow$	$\leftarrow X3, \uparrow Y1$	$\rightarrow X3, \uparrow Y1$
$\leftarrow (X + X3 + X2), \uparrow Y, \text{turn} \rightarrow$	$\uparrow Y, \leftarrow X1$	$\leftarrow (X + X3), \uparrow Y1$	$\leftarrow (X1 + X2), \uparrow Y1$

Drop off block

Initial Autonomous Mode

Determine: Robot Location, Drop-off Location

1	2	3	4
$\uparrow Y, \rightarrow X1$	$\rightarrow (X+X3+X2), \uparrow Y, \text{turn} \leftarrow$	$\rightarrow (X1 + X2), \uparrow Y1$	$\rightarrow (X + X3), \uparrow Y1$
$\leftarrow (X3 + X2), \uparrow Y, \text{turn} \rightarrow$	$\rightarrow (X3 + X2), \uparrow Y, \text{turn} \leftarrow$	$\leftarrow X3, \uparrow Y1$	$\rightarrow X3, \uparrow Y1$
$\leftarrow (X + X3 + X2), \uparrow Y, \text{turn} \rightarrow$	$\uparrow Y, \leftarrow X1$	$\leftarrow (X + X3), \uparrow Y1$	$\leftarrow (X1 + X2), \uparrow Y1$

Drop off block

Initial Autonomous Mode

Determine: Robot Location, Drop-off Location

1	2	3	4
$\uparrow Y, \rightarrow X1$	$\rightarrow (X+X3+X2), \uparrow Y, \text{turn} \leftarrow$	$\rightarrow (X1 + X2), \uparrow Y1$	$\rightarrow (X + X3), \uparrow Y1$
$\leftarrow (X3 + X2), \uparrow Y, \text{turn} \rightarrow$	$\rightarrow (X3 + X2), \uparrow Y, \text{turn} \leftarrow$	$\leftarrow X3, \uparrow Y1$	$\rightarrow X3, \uparrow Y1$
$\leftarrow (X + X3 + X2), \uparrow Y, \text{turn} \rightarrow$	$\uparrow Y, \leftarrow X1$	$\leftarrow (X + X3), \uparrow Y1$	$\leftarrow (X1 + X2), \uparrow Y1$

Drop off block

Second autonomous mode (pick up/drop off second block)

Start teleop

