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# CHALLENGES LIST

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*-last updated in March 10th of 2019-*

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## BASIC MOVEMENT

Challenges	Moving Forward	85 cm Challenge	Arm Control	90 Deg Turn	Orchard Challenge 1.0	Cargo Retrieval	Sensorbot Challenge	Sensorbot Classic	Turning in Place	Dizzy Drill	Orchard Challenge 1.0	Orchard Classic 2.0	Orchard Challenge 2.0
<b>Operation may utilize:</b>													
<b>2 motors movement</b>	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	nc	✓
<b>3 motors movement</b>					✓	✓				✓	✓		✓
<b>Motors movement with encoder</b>		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓
<b>1 light sensor</b>							✓	✓					
<b>2 light sensors</b>													
<b>1 color sensor</b>							✓	✓					
<b>2 color sensors</b>													

# PROGRAM FLOW

Challenges	Looped Movements	Square Dance	Loops with Count Control	Square Dance 2	Loops with Sensor Control	Square Dance 3	Container Handling	Container Handling Classic	Move If Clear	Color Sensor Comparison	Maze Runner	Maze Runner 2	Strawberry Plant
Operation may utilize:													
2 motors movement	✓	✓											✓
3 motors movement	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Motors movement with encoder	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
1 light sensor	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
2 light sensors					✓	✓	✓	✓	✓	✓	✓	✓	✓
1 color sensor					✓	✓	✓	✓	✓	✓	✓	✓	✓
2 color sensors											✓	✓	✓
											✓	✓	✓

## PROGRAM FLOW

Challenges	Obstacle Detection	Obstacle Detection til black	Obstacle Orchard 1	Obstacle Orchard 2	Obstacle Orchard Classic 1	Obstacle Orchard Classic 2	Line Tracking	Line Tracking for rotations	Line Tracking Challenge					
<b>Operation may utilize:</b>														
<b>2 motors movement</b>	✓				nc	nc								
<b>3 motors movement</b>	✓	✓	✓	✓			✓	✓	✓					
<b>Motors movement with encoder</b>			✓	✓				✓	✓					
<b>1 light sensor</b>			✓	✓				✓	✓					
<b>2 light sensors</b>	✓	✓	✓	✓				✓	✓					
<b>1 color sensor</b>	✓	✓	✓	✓				✓	✓					
<b>2 color sensors</b>		✓	✓	✓				✓	✓					
	✓	✓	✓	✓				✓	✓					