

when started

set drive velocity to 200 %

set turn velocity to 200 %

We set the speed velocity to 200 because that is the fastest and we wanted to be able to do more things in a fast amount of time.

set IntakeMotorGroup velocity to 200 %

set ArmMotorGroup velocity to 200 %

drive forward for 2 inches

spin IntakeMotorGroup intake

drive reverse for 1.8 inches

turn left for 100 degrees

spin ArmMotorGroup up for 400 degrees

We have the arm go up 400 degrees because that's the highest it can go and make it into the baskets.

drive forward for 4.4 inches

spin IntakeMotorGroup outtake for 400 degrees

drive reverse for 3.4 inches

turn right for 100 degrees

We keep turning right 100 degrees because then it will be back where it started so it can go straight and pick up the next green.

spin ArmMotorGroup down for 400 degrees

drive forward for 6.5 inches

spin IntakeMotorGroup intake

drive reverse for 5.5 inches

We go backwards because it takes less time than turning 180 degrees.

turn left for 100 degrees

spin ArmMotorGroup up for 400 degrees

drive forward for 4.4 inches

spin IntakeMotorGroup outtake for 400 degrees

drive reverse for 3.4 inches

turn right for 100 degrees

spin ArmMotorGroup down for 400 degrees

drive forward for 12.5 inches

spin IntakeMotorGroup intake

```
drive forward for 36 inches
turn left for 45 degrees
spin ArmMotorGroup up for 400 degrees
drive forward for 4.4 inches
spin IntakeMotorGroup outtake for 400 degrees
drive reverse for 3.4 inches
spin ArmMotorGroup down for 400 degrees
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We drive reverse for 8 inches so we could knock down the red block when we are on the way to get the second green block for that basckt.

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drive reverse for 8 inches
turn right for 80 degrees
drive forward for 3 inches
spin IntakeMotorGroup intake
drive reverse for 4 inches
turn left for 80 degrees
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spin ArmMotorGroup up for 400 degrees
drive forward for 10 inches
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We turned 190 degrees so we could be pointing towards the red block on the way to the next basket so we could save time and not turn so much.

```
spin IntakeMotorGroup outtake for 400 degrees
turn right for 190 degrees
spin ArmMotorGroup down for 400 degrees
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We hit the red block on the way to get the first green block for the last basket.

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drive forward for 38 inches
drive reverse for 1 inches
turn left for 45 degrees
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We had to reverse and rotate left so that we didn't hit the little block holder after we hit down the red.

```
spin IntakeMotorGroup intake
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When on our way to the last basket we pick up the first green.

```
drive forward for 48 inches
spin ArmMotorGroup up for 400 degrees
drive forward for 3 inches
turn right for 60 degrees
drive forward for 3 inches
spin IntakeMotorGroup outtake for 400 degrees
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turn left for 180 degrees

spin ArmMotorGroup down for 400 degrees

drive forward for 4 inches

spin IntakeMotorGroup intake

drive reverse for 4 inches

spin ArmMotorGroup up for 400 degrees

turn right for 180 degrees

drive forward for 3 inches

spin IntakeMotorGroup outtake for 400 degrees

turn left for 190 degrees

spin ArmMotorGroup down for 400 degrees

drive forward for 3 inches

spin IntakeMotorGroup intake for 400 degrees

spin ArmMotorGroup up for 400 degrees

turn right for 185 degrees

drive forward for 5 inches

spin IntakeMotorGroup outtake for 400 degrees

turn left for 15 degrees

drive reverse for 40 inches

turn left for 55 degrees

drive forward for 15 inches

stop driving

stop project

We turned 180 degrees so the robot would turn enough to get the second green.

We turned right 180 degrees so the robot was back where it started at the basket.

The third green we wanted to get was more to the left so we had to add 10 more degrees to the left turn.

We did not put the arm down after we dropped the last green so that it would be up when we needed to park later.

We reversed to hit the red because if we turned 180 degrees it would make us run out of time

After we hit the red we had to turn the robot left so it with park within the supply zone.