952W

Virtual Skills Online Challenge Submission
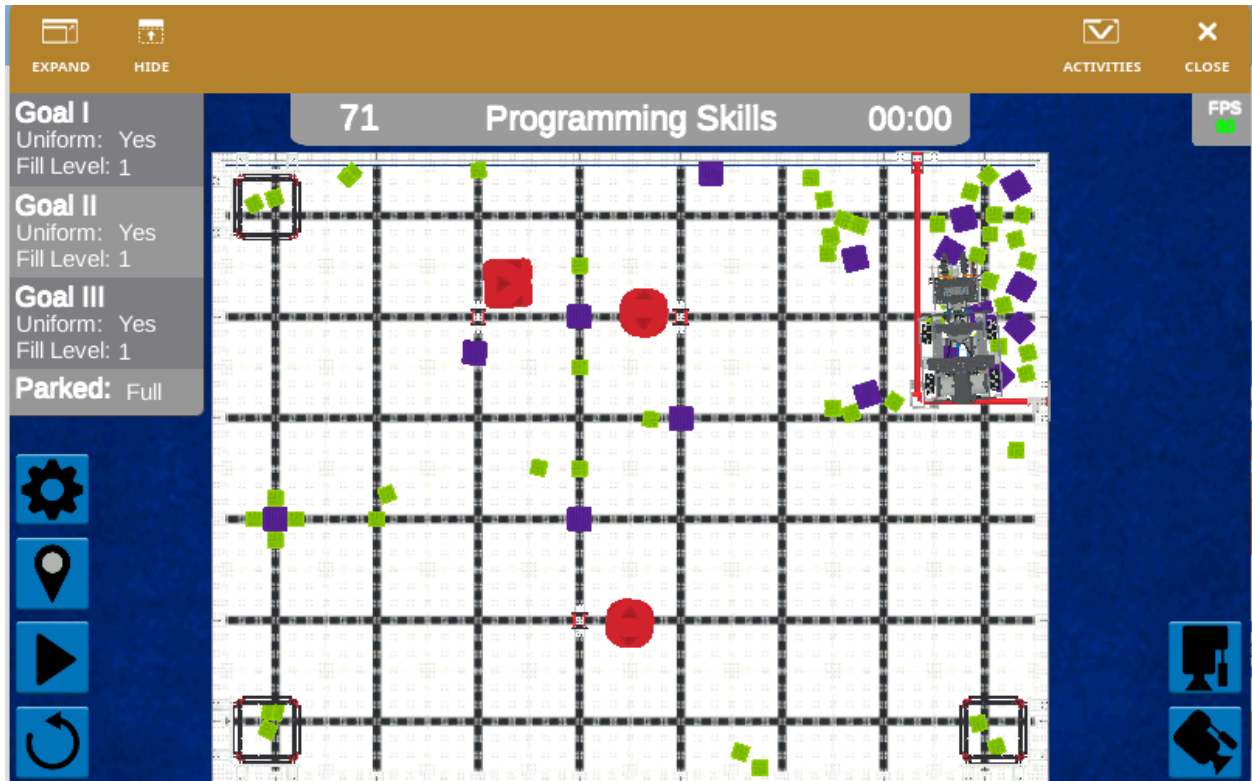
Full Volume

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Date: Tuesday 1/30/24

This code that we have been working on for the past 7 months has all of our hard work incorporated, it adds up to a final score of 71 with 0 seconds left. Thank you for your time!

-Team 952W

A final screenshot of our code:

when started

This is code as of 1/28/24

Key:
Uniform Bonus= 10 points
Fill Level 1 Bonus=10 points
()= The Amount of Points a Specific Part of Code Gets

Velocity set to 100% so less time is wasted, use this for every path!

set turn velocity to 100 %

set drive velocity to 100 %

set IntakeMotorGroup▾ velocity to 100 % ▾

set ArmMotorGroup▾ velocity to 100 % ▾

Path #2 Total Score So Far: 71

spin IntakeMotorGroup▾ intake ▾ for 200 degrees ▾ ▶

wait until IntakeMotorGroup▾ is done?

spin ArmMotorGroup▾ up ▾ for 1 turns ▾ ▶

turn left ▾ for 100 degrees ▶

spin IntakeMotorGroup▾ outtake ▾ for 400 degrees ▾ ▶

wait until IntakeMotorGroup▾ is done?

turn right ▾ for 100 degrees ▶

spin ArmMotorGroup▾ down ▾ for 1 turns ▾ ▶

wait until ArmMotorGroup▾ is done?

drive forward ▾ for 200 mm ▾ ▶

spin IntakeMotorGroup▾ intake ▾ for 400 degrees ▾ ▶

drive reverse ▾ for 200 mm ▾ ▶

spin ArmMotorGroup▾ up ▾ for 1 turns ▾ ▶

turn left ▾ for 100 degrees ▶

spin IntakeMotorGroup▾ outtake ▾ for 600 degrees ▾ ▶

2 Green Blocks In Goal #2(2 +Uniform Bonus) Score: 12

2 Green Blocks In Goal #2(2 +Uniform Bonus) Score: 12

turn right ▾ for 100 degrees ▶

drive forward ▾ for 200 mm ▾ ▶

turn right ▾ for 90 degrees ▶

drive forward ▾ for 500 mm ▾ ▶

wait until drive is done?

Knock Down First Red Block (5) Score: 17

drive reverse ▾ for 200 mm ▾ ▶

turn left ▾ for 90 degrees ▶

spin ArmMotorGroup ▾ down ▾ for 1 turns ▾ ▶

drive forward ▾ for 650 mm ▾ ▶

turn right ▾ for 90 degrees ▶

drive forward ▾ for 200 mm ▾ ▶

spin IntakeMotorGroup ▾ intake ▾ for 400 degrees ▾ ▶

Knock Down 2nd Red And Intake Green Block In The Middle (5) Score: 2

Knock Down 2nd Red And Intake Green Block In The Middle (5) Score: 22

drive reverse ▾ for 400 mm ▾ ▶

turn left ▾ for 90 degrees ▶

drive forward ▾ for 575 mm ▾ ▶

turn left ▾ for 80 degrees ▶

spin ArmMotorGroup ▾ up ▾ for 1 turns ▾ ▶

wait until ArmMotorGroup ▾ is done?

drive forward ▾ for 130 mm ▾ ▶

spin IntakeMotorGroup ▾ outtake ▾ for 600 degrees ▾ ▶

wait until IntakeMotorGroup ▾ is done?

Placing Green Block Just Collected In Goal #3 (1) Score: 23

Placing Green Block Just Collected In Goal #3 (1) Score: 23

drive reverse for 130 mm ▶

turn right for 170 degrees ▶

drive forward for 50 mm ▶

spin ArmMotorGroup down for 1.2 turns ▶

wait until ArmMotorGroup is done?

spin IntakeMotorGroup intake for 1000 degrees ▶

turn left for 170 degrees ▶

spin ArmMotorGroup up for 1 turns ▶

drive forward for 50 mm ▶

wait until ArmMotorGroup is done?

drive forward for 130 mm ▶

spin IntakeMotorGroup outtake for 600 degrees ▶

wait until IntakeMotorGroup is done?

Placing 1 More Green Block In Goal #3 (1 +Uniform Bonus) Score: 34

Placing 1 More Green Block In Goal #3 (1 +Uniform Bonus) Score: 34

turn [left ▾] for (10) degrees ▶

drive [reverse ▾] for (1100) [mm ▾] ▶

turn [left ▾] for (70) degrees ▶

drive [forward ▾] for (200) [mm ▾] ▶

turn [left ▾] for (70) degrees ▶

drive [forward ▾] for (200) [mm ▾] ▶

turn [right ▾] for (45) degrees ▶

Knock Down 3rd Red Block (5) Score: 39

Knock Down 3rd Red Block (5) Score: 39

spin [ArmMotorGroup ▾] [down ▾] for (1) [turns ▾] ▶

wait until ⟨ ArmMotorGroup ▾ is done? ⟩

spin [IntakeMotorGroup ▾] [intake ▾]

drive [forward ▾] for (1120) [mm ▾] ▶

turn [left ▾] for (80) degrees ▶

stop [IntakeMotorGroup ▾]

spin [ArmMotorGroup ▾] [up ▾] for (1) [turns ▾] ▶

wait until ⟨ ArmMotorGroup ▾ is done? ⟩

drive [forward ▾] for (375) [mm ▾] ▶

spin [IntakeMotorGroup ▾] [outtake ▾] for (400) [degrees ▾] ▶

wait until ⟨ IntakeMotorGroup ▾ is done? ⟩

Placing 1 Green Block In Goal #1 (1 +Fill Level 1 Bonus) Score: 50

Placing 1 Green Block In Goal #1 (1 +Fill Level 1 Bonus) Score: 50

turn right for 145 degrees ▶

spin ArmMotorGroup ▾ down ▾ for 1 turns ▾ ▶

drive forward ▾ for 100 mm ▾ ▶

spin IntakeMotorGroup ▾ intake ▾

drive reverse ▾ for 100 mm ▾ ▶

turn left ▾ for 150 degrees ▶

stop IntakeMotorGroup ▾

spin ArmMotorGroup ▾ up ▾ for 1 turns ▾ ▶

wait until ArmMotorGroup ▾ is done?

spin IntakeMotorGroup ▾ outtake ▾ for 800 degrees ▾ ▶

Placing 1 More Green Block In Goal #1 (1 +Uniform Bonus) Score: 61

Placing 1 More Green Block In Goal #1 (1 +Uniform Bonus) Score: 61

turn left ▾ for 90 degrees ▶

drive forward ▾ for 700 mm ▾ ▶

turn right ▾ for 90 degrees ▶

drive forward ▾ for 225 mm ▾ ▶

turn right ▾ for 80 degrees ▶

drive reverse ▾ for 10 mm ▾ ▶

broadcast driveandspin ▾

Fully Parking Robot: 71

when I receive driveandspin ▾

spin ArmMotorGroup ▾ up ▾ for 5.2 turns ▾ ▶

spin ArmMotorGroup ▾ down ▾ for 3.6 turns ▾ ▶

if FrontDistance ▾ found an object? then

set fullparkdoesnotwork ▾ to true ▾

if fullparkdoesnotwork then

spin ArmMotorGroup ▾ to position 1 turns ▾ ▶

This is the end of our code, again thank you for your time!