

Student Name: 2929p

Assignment:

Notes:

Playground: VIQC Virtual Skills - Full Volume

Project Name: Virtual Full Volume Competition practice and score

Project Type: Blocks

Date: Tue Jan 30 2024

Playground Screenshot Not Found



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when started
  set distanceToGoal to score * 250
  set distanceToGoal to velocity to distanceToGoal * 0.5
  set distanceToGoal to velocity to distanceToGoal * 0.5
  set distanceToGoal to velocity to distanceToGoal * 0.5
  set turn velocity to distanceToGoal * 0.5
  turn left for 45 degrees
  drive forward for 100 mm
  drive reverse for 100 mm
  turn right for 45 degrees
  drive forward for 200 mm
  spin Anticlockwise for 180 degrees
  our code prioritized scoring uniform goal and knocking down red blocks
  drive forward for 200 mm
  drive reverse for 200 mm
  turn right for 90 degrees
  spin Anticlockwise for 90 degrees
  drive forward for 200 mm
  turn right for 90 degrees
  wait 0.5 seconds
  spin Anticlockwise for 90 degrees
  wait 0.5 seconds
  turn left for 45 degrees
  drive reverse for 200 mm
  spin Anticlockwise for 180 degrees
  drive reverse for 200 mm
  turn left for 135 degrees
  drive forward for 400 mm
  The main goal of this challenge was to score the maximum amount of points and make a sub 2 minute video
  spin Anticlockwise for 180 degrees
  drive reverse for 400 mm
  turn right for 135 degrees
  we knocked down 4 red blocks scored 2 uniform goal and 1 purple block for an excellent points
  spin Anticlockwise for 90 degrees
  drive forward for 400 mm
  turn right for 225 degrees
  wait 0.5 seconds
  spin Anticlockwise for 90 degrees
  The reason we did uniform goal and fill level 2 in our goal was because it was the fastest and best time consuming method to scoring points
  wait 0.5 seconds
  turn left for 225 degrees
  drive reverse for 1500 mm
  spin Anticlockwise for 180 degrees
  turn left for 90 degrees
  spin Anticlockwise for 180 degrees
  spin Anticlockwise for 90 degrees
  turn left for 45 degrees
  and blocks being knocked down from peg was tricky all you had to do is drive into the block to move it from the peg then if you knock down all three you
  drive forward for 50 mm
  turn left for 15 degrees
  wait 0.5 seconds
  spin Anticlockwise for 90 degrees
  wait 0.5 seconds
  turn right for 15 degrees
  drive reverse for 50 mm
  spin Anticlockwise for 180 degrees
  turn right for 90 degrees
  drive forward for 200 mm
  from research uniform goal has always been the fastest way to score red blocks being knocked down and fill level
  spin Anticlockwise for 180 degrees
  drive reverse for 200 mm
  turn left for 45 degrees
  spin Anticlockwise for 180 degrees
  drive forward for 15 mm
  spin Anticlockwise for 90 degrees
  wait 0.5 seconds
  turn right for 15 degrees
  drive reverse for 200 mm
  turn right for 90 degrees
  spin Anticlockwise for 180 degrees
  drive forward for 450 mm
  spin Anticlockwise for 180 degrees
  drive forward for 200 mm
  drive reverse for 100 mm
  turn left for 45 degrees
  spin Anticlockwise for 180 degrees
  drive forward for 100 mm
  wait 0.5 seconds
  spin Anticlockwise for 90 degrees
  wait 0.5 seconds
  drive reverse for 700 mm
  spin Anticlockwise for 180 degrees
  turn right for 90 degrees
  drive forward for 600 mm
  spin Anticlockwise for 180 degrees
  drive reverse for 600 mm
  turn left for 90 degrees
  spin Anticlockwise for 180 degrees
  drive forward for 700 mm
  wait 0.5 seconds
  spin Anticlockwise for 90 degrees
  
```

```
drive forward for 80 mm
spin IntakeMotorGroup intake for 90 degrees
drive reverse for 80 mm
spin ArmMotorGroup up for 370 degrees
turn left for 90 degrees
drive forward for 30 mm
turn left for 15 degrees
spin IntakeMotorGroup outtake for 90 degrees
wait 0.5 seconds
turn right for 15 degrees
drive reverse for 30 mm
turn right for 90 degrees
spin ArmMotorGroup down for 370 degrees
drive forward for 130 mm
spin IntakeMotorGroup intake for 90 degrees
drive reverse for 130 mm
spin ArmMotorGroup up for 370 degrees
turn left for 90 degrees
drive forward for 30 mm
turn left for 15 degrees
spin IntakeMotorGroup outtake for 90 degrees
```

```
turn left * for 90 degrees
drive forward * for 250 mm *
* * *
stop driving
turn right * for 90 degrees
turn left * for 90 degrees
drive forward * for 250 mm *
* * *
turn right * for 90 degrees
drive forward * for 80 mm *
* * *
spin AntiklockGroup * into * for 90 degrees *
drive reverse * for 150 mm *
turn left * for 150 degrees
spin AntiklockGroup * up * for 270 degrees *
spin AntiklockGroup * outside * for 90 degrees *
spin AntiklockGroup * down * for 270 degrees *
turn left * for 150 degrees
drive forward * for 150 mm *
* * *
spin AntiklockGroup * into * for 90 degrees *
drive reverse * for 300 mm *
turn left * for 150 degrees
drive forward * for 150 mm *
* * *
spin AntiklockGroup * up * for 270 degrees *
spin AntiklockGroup * outside * for 90 degrees *
spin AntiklockGroup * down * for 270 degrees *
turn right * for 150 degrees
drive forward * for 150 mm *
* * *
spin AntiklockGroup * into * for 90 degrees *
drive forward * for 1000 mm *
* * *
turn left * for 90 degrees
spin AntiklockGroup * up * for 270 degrees *
spin AntiklockGroup * outside * for 90 degrees *
spin AntiklockGroup * down * for 270 degrees *
turn right * for 90 degrees
spin AntiklockGroup * into * for 90 degrees *
turn left * for 90 degrees
spin AntiklockGroup * up * for 270 degrees *
spin AntiklockGroup * outside * for 90 degrees *
spin AntiklockGroup * down * for 270 degrees *
turn left * for 90 degrees
drive forward * for 1000 mm *
* * *
turn left * for 90 degrees
drive forward * for 300 mm *
* * *
drive reverse * for 200 mm *
turn right * for 90 degrees
drive forward * for 250 mm *
* * *
turn left * for 90 degrees
drive forward * for 80 mm *
spin AntiklockGroup * into * for 90 degrees *
drive reverse * for 80 mm *
turn right * for 90 degrees
drive forward * for 150 mm *
* * *
turn left * for 90 degrees
drive forward * for 1000 mm *
* * *
turn right * for 90 degrees
spin AntiklockGroup * up * for 270 degrees *
spin AntiklockGroup * outside * for 90 degrees *
spin AntiklockGroup * down * for 270 degrees *
turn left * for 180 degrees
drive forward * for 1000 mm *
* * *
turn right * for 90 degrees
drive forward * for 450 mm *
* * *
```

```
set turn velocity to Infinity %
set IntakeMotorGroup velocity to Infinity %
set ArmMotorGroup velocity to Infinity %
set drive velocity to Infinity %
drive forward for 225 mm
if FrontDistance object distance in mm < 226 then
  stop driving
  turn right for 90 degrees
drive forward for 80 mm
if FrontDistance object distance in mm < 81 then
  stop driving
  drive reverse for 80 mm
  turn left for 90 degrees
drive forward for 400 mm
if FrontDistance object distance in mm < 401 then
  stop driving
  spin IntakeMotorGroup intake for 90 degrees
  spin ArmMotorGroup up for 300 degrees
  drive reverse for 600 mm
  turn left for 90 degrees
drive forward for 300 mm
if FrontDistance object distance in mm < 301 then
  stop driving
  turn left for 20 degrees
  spin IntakeMotorGroup outtake for 90 degrees
  wait 1 seconds
  stop driving
  spin ArmMotorGroup down for 300 degrees
  turn left for 160 degrees
drive forward for 270 mm
if FrontDistance object distance in mm < 301 then
  stop driving
  turn left for 90 degrees
drive forward for 500 mm
if FrontDistance object distance in mm < 501 then
  stop driving
  turn right for 90 degrees
  drive forward for 50 mm
  spin IntakeMotorGroup intake for 90 degrees
  turn right for 90 degrees
drive forward for 500 mm
if FrontDistance object distance in mm < 501 then
  stop driving
  turn right for 90 degrees
drive forward for 315 mm
if FrontDistance object distance in mm < 316 then
  stop driving
  turn left for 20 degrees
  spin ArmMotorGroup up for 270 degrees
  spin IntakeMotorGroup outtake for 90 degrees
  spin ArmMotorGroup down for 270 degrees
```

```

set drive velocity to Infinity %
set turn velocity to Infinity %
drive forward for 50 mm
spin IntakeMotorGroup intake for 90 degrees
spin ArmMotorGroup up for 370 degrees
drive reverse for 50 mm
turn right for 90 degrees
drive forward for 450 mm
turn right for 25 degrees
spin IntakeMotorGroup outtake for 150 degrees
wait 0.5 seconds
turn left for 25 degrees
drive reverse for 450 mm
spin ArmMotorGroup down for 370 degrees
turn left for 90 degrees
drive forward for 180 mm
spin IntakeMotorGroup intake for 90 degrees
drive reverse for 180 mm
turn right for 90 degrees
spin ArmMotorGroup up for 370 degrees
drive forward for 450 mm
turn right for 25 degrees
spin IntakeMotorGroup outtake for 125 degrees
wait 0.5 seconds
turn left for 25 degrees
drive reverse for 120 mm
spin ArmMotorGroup down for 370 degrees
turn left for 180 degrees
drive forward for 855 mm
turn right for 90 degrees
turn left for 90 degrees
drive forward for 350 mm
turn right for 90 degrees
drive forward for 450 mm
turn right for 90 degrees
drive forward for 30 mm
spin IntakeMotorGroup intake for 90 degrees
drive reverse for 30 mm
turn left for 90 degrees

```

FrontDistance ▼

object distance in

mm ▼

FrontDistance ▼

object distance in

mm ▼

<

301

FrontDistance ▼

object distance in

mm ▼

<

301

```
drive forward for 635 mm
if FrontDistance object distance in mm < 647 then
  stop driving
  turn right for 90 degrees
drive forward for 550 mm
if FrontDistance object distance in mm < 551 then
  stop driving
  turn left for 90 degrees
  spin IntakeMotorGroup intake for 90 degrees
  turn left for 90 degrees
drive forward for 550 mm
if FrontDistance object distance in mm < 551 then
  stop driving
  turn left for 90 degrees
drive forward for 800 mm
```

FrontDistance ▼

object distance in

mm ▼

FrontDistance ▼

object distance in

mm ▼

FrontDistance ▼

object distance in

mm ▼

FrontDistance ▼

object distance in

mm ▼

FrontDistance ▼

object distance in

mm ▼

FrontDistance ▼

object distance in

mm ▼