

VEX CODE VR

Student Name: VR skills

Assignment:

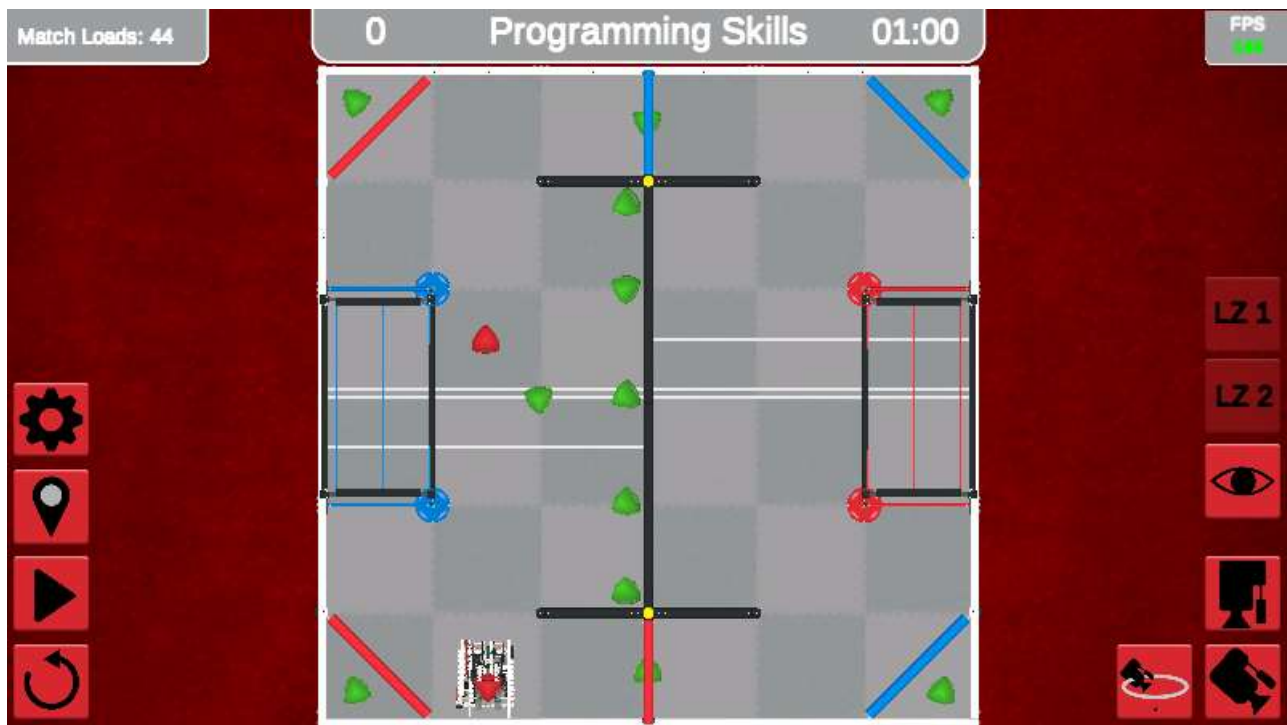
Notes:

Playground: VRC Virtual Skills - Over Under

Project Name: VEXcode Project (5) (1) (2)

Project Type: Blocks

Date: Wed Jan 31 2024



```
set: IntakeMotor - velocity to 200 %
set: ArmatureMotor - velocity to 200 %
set drive velocity to 200 %
set turn velocity to 200 %
spin: ArmatureMotor - down - for 90 turns - and don't wait
Optical - detect red - ?
drive forward - for 1300 mm
turn right - for 90 degrees
spin: IntakeMotor - outtake - for 1 turns
turn to heading 90 degrees
drive forward - for 200 mm
spin: IntakeMotor - intake - for 1 turns
turn to heading 90 degrees and don't wait
spin: IntakeMotor - outtake - for 1 turns
turn to heading 90 degrees
spin: IntakeMotor - intake - for 1 turns - and don't wait - to heading 90 degrees
drive forward - for 1320 mm
wait 0.5 seconds
spin: IntakeMotor - outtake - for 2 turns
turn to heading 95 degrees
drive forward - for 200 mm
spin: IntakeMotor - intake - for 1 turns - and don't wait
turn to heading 90 degrees
drive forward - for 200 mm
spin: IntakeMotor - outtake - for 2 turns
turn to heading 132 degrees
drive forward - for 400 mm
spin: IntakeMotor - intake - for 1 turns
turn to heading 95 degrees
drive forward - for 200 mm
spin: IntakeMotor - outtake - for 2 turns
turn to heading 200 degrees
wait 0.5 seconds
drive forward - for 700 mm
spin: IntakeMotor - intake - for 1 turns - and don't wait
turn to heading 90 degrees
drive forward - for 400 mm
spin: IntakeMotor - outtake - for 2 turns
turn to heading 138 degrees
drive forward - for 600 mm
spin: IntakeMotor - intake - for 1 turns - and don't wait
turn to heading 90 degrees
drive forward - for 500 mm
spin: IntakeMotor - outtake - for 2 turns
turn to heading 132 degrees
drive forward - for 1200 mm
spin: IntakeMotor - intake - for 1 turns - and don't wait
turn to heading 90 degrees
drive forward - for 500 mm
spin: IntakeMotor - outtake - for 2 turns
turn to heading 132 degrees
drive forward - for 1200 mm
spin: IntakeMotor - intake - for 1 turns - and don't wait
turn to heading 90 degrees
drive forward - for 700 mm
spin: IntakeMotor - outtake - for 2 turns
turn to heading 120 degrees
drive forward - for 500 mm
turn to heading 90 degrees
drive forward - for 1400 mm
turn to heading 140 degrees
spin: IntakeMotor - intake - for 1 turns - and don't wait
turn to heading 90 degrees
drive forward - for 1000 mm
turn to heading 14 degrees
drive forward - for 500 mm
spin: IntakeMotor - outtake - for 2 turns
turn to heading 131 degrees
drive forward - for 2300 mm
spin: IntakeMotor - intake - for 1 turns
turn to heading 90 degrees
drive forward - for 1000 mm
```

```
turn right - for 90 degrees
git - for 90 degrees
```

```
wait 0.5
turn right - for 180 degrees
spin: IntakeMotor - outtake - for 90 degrees
turn right - for 180 degrees
drive forward - for 500 mm
drive forward - for 200 mm
drive forward - for 200 mm
spin: ArmatureMotor - set: IntakeMotor - position to 90 degrees
spin: IntakeMotor - turn left - for 180 degrees
spin: IntakeMotor - outtake - for 90 degrees
turn right - for 180 degrees
turn right - for 90 degrees
turn right - for 180 degrees
drive forward - for 200 mm
turn right - for 90 degrees
drive forward - for 500 mm
spin: IntakeMotor - outtake - for 90 degrees
wait 0.5 seconds
drive forward - for 200 mm
turn right - for 90 degrees
drive forward - for 700 mm
turn left - for 90 degrees
```

```
drive forward - for 1000 mm
spin: ArmatureMotor - up - for 2 turns
turn to heading 90 degrees
drive reverse - for 600 mm
spin: IntakeMotor - intake - for 2 turns
spin: ArmatureMotor - up - for 40 turns
```

```
turn to heading 90 degrees
drive forward - for 1300 mm
turn to heading 90 degrees
spin: IntakeMotor - outtake - for 2 turns
turn right - for 180 degrees
drive forward - for 500 mm
spin: IntakeMotor - intake - for 2 turns
turn right - for 180 degrees
drive forward - for 200 mm
spin: IntakeMotor - outtake - for 2 turns
turn right - for 180 degrees
drive forward - for 1000 mm
spin: IntakeMotor - intake - for 2 turns
turn right - for 180 degrees
drive forward - for 1300 mm
spin: IntakeMotor - outtake - for 2 turns
turn left - for 90 degrees
drive forward - for 200 mm
turn left - for 90 degrees
drive forward - for 200 mm
spin: IntakeMotor - intake - for 4 turns
drive reverse - for 500 mm
turn right - for 200 degrees
spin: IntakeMotor - outtake - for 2 turns
drive forward - for 200 mm
turn left - for 270 degrees
spin: IntakeMotor - intake - for 90 degrees
drive
spin: IntakeMotor - outtake - for 90 degrees
turn right - for 90 degrees
spin: IntakeMotor - outtake - for 90 degrees
wait 0.5 seconds
turn right - for 180 degrees
drive forward - for 1200 mm
spin: IntakeMotor - intake - for 90 degrees
turn right - for 180 degrees
drive forward - for 500 mm
turn to heading 130 degrees
drive forward - for 1200 mm
spin: IntakeMotor - outtake - for 2 turns
spin: ArmatureMotor - down - for 20 turns
spin: IntakeMotor - intake - for 90 degrees
turn left - for 90 degrees
drive forward - for 300 mm
spin: IntakeMotor - outtake - for 90 degrees
spin: IntakeMotor - outtake - for 90 degrees
wait 0.5 seconds
drive reverse - for 200 mm
drive reverse - for 1000 mm
turn right - for 90 degrees
drive forward - for 200 mm
spin: IntakeMotor - outtake - for 2 turns
turn to heading 14 degrees
turn to heading 130 degrees
drive reverse - for 200 mm
spin: IntakeMotor - outtake - for 2 turns
```

```
turn to heading 40 degrees
drive forward - for 500 mm
spin: IntakeMotor - outtake - for 2 turns
turn to heading 92.5 degrees
drive forward - for 2100 mm
spin: IntakeMotor - intake - for 2 turns
turn to heading 120 degrees
drive forward - for 400 mm
spin: IntakeMotor - outtake - for 2 turns
turn to heading 42 degrees
drive forward - for 1200 mm
spin: IntakeMotor - intake - for 2 turns
turn to heading 100 degrees
drive forward - for 100 mm
spin: IntakeMotor - outtake - for 2 turns
turn to heading 95 degrees
drive forward - for 1000 mm
spin: IntakeMotor - intake - for 2 turns
turn to heading 90 degrees
drive forward - for 300 mm
turn to heading 140 degrees
drive forward - for 400 mm
spin: IntakeMotor - outtake - for 2 turns
```

```
when started
  set IntakeMotor velocity to 200 %
  set ArmMotor velocity to 200 %
  set drive velocity to 200 %
  set turn velocity to 200 %
  spin ArmMotor down for 90 turns and don't wait
  if Optical detects red ? then
    drive forward for 1356 mm
  turn right for 90 degrees
  spin IntakeMotor outtake for 1 turns
  turn to heading 0 degrees
  drive forward for 200 mm
  spin IntakeMotor Intake for 1 turns
  turn to heading 90 degrees and don't wait
  spin IntakeMotor outtake for 1 turns
  turn to heading 80 degrees
  spin IntakeMotor Intake for 1 turns and don't wait
  drive forward for 1325 mm
  wait 0.03 seconds
  spin IntakeMotor outtake for 2 turns
  turn to heading 65 degrees
  drive forward for 290 mm
  spin IntakeMotor Intake for 1 turns and don't wait
  turn to heading 30 degrees
  drive forward for 290 mm
  spin IntakeMotor outtake for 2 turns
  turn to heading -132 degrees
  drive forward for 485 mm
  spin IntakeMotor Intake for 1 turns
  turn to heading 39 degrees
  drive forward for 380 mm
  spin IntakeMotor outtake for 2 turns
  turn to heading 220 degrees
  wait 0.06 seconds
  drive forward for 704 mm
  spin IntakeMotor Intake for 1 turns and don't wait
  turn to heading 80 degrees
  drive forward for 470 mm
  spin IntakeMotor outtake for 2 turns
  turn to heading -138 degrees
  drive forward for 638 mm
  spin IntakeMotor Intake for 1 turns and don't wait
  turn to heading 60 degrees
  drive forward for 525 mm
  spin IntakeMotor outtake for 2 turns
  turn to heading 132 degrees
  drive forward for 1200 mm
  spin IntakeMotor Intake for 1 turns and don't wait
  turn to heading 15 degrees
  drive forward for 500 mm
  spin IntakeMotor outtake for 2 turns
  turn to heading -120 degrees
  drive forward for 1200 mm
  spin IntakeMotor Intake for 1 turns and don't wait
  turn to heading 50 degrees
  drive forward for 700 mm
  spin IntakeMotor outtake for 2 turns
  turn to heading -120 degrees
  drive forward for 900 mm
  turn to heading 90 degrees
  drive forward for 1450 mm
  turn to heading 240 degrees
  spin IntakeMotor Intake for 1 turns and don't wait
  turn to heading 30 degrees
  drive forward for 1900 mm
  turn to heading 33 degrees
  drive forward for 550 mm
  spin IntakeMotor outtake for 2 turns
  turn to heading 331 degrees
  drive forward for 2100 mm
  spin IntakeMotor Intake for 1 turns
  turn to heading 30 degrees
  drive forward for 1000 mm
```

```
turn to heading 0 degrees
drive forward for 1365 mm
turn to heading 90 degrees
spin IntakeMotor outtake for 2 turns
turn right for 180 degrees
drive forward for 650 mm
spin IntakeMotor intake for 2 turns
turn right for 180 degrees
drive forward for 700 mm
spin IntakeMotor outtake for 2 turns
turn right for 180 degrees
drive forward for 1550 mm
spin IntakeMotor intake for 2 turns
turn right for 180 degrees
drive forward for 1150 mm
spin IntakeMotor outtake for 2 turns
turn left for 90 degrees
drive forward for 700 mm
turn left for 90 degrees
drive forward for 300 mm
spin IntakeMotor intake for 4 turns
drive reverse for 550 mm
turn right for 200 degrees
spin IntakeMotor outtake for 2 turns
drive forward for 200 mm
turn left for 175 degrees
drive forward for 775 mm
spin IntakeMotor intake for 2 turns
turn right for 180 degrees
drive forward for 800 mm
spin IntakeMotor outtake for 2 turns
drive reverse for 300 mm
turn to heading -85 degrees
drive forward for 1200 mm
spin IntakeMotor intake for 2 turns
turn to heading 120 degrees
drive forward for 1200 mm
spin IntakeMotor outtake for 2 turns
turn left for 90 degrees
drive forward for 1500 mm
turn to heading -90 degrees
drive forward for 900 mm
spin IntakeMotor intake for 2 turns
drive reverse for 500 mm
turn right for 90 degrees
drive reverse for 1000 mm
turn right for 90 degrees
drive forward for 200 mm
spin IntakeMotor outtake for 2 turns
turn to heading 10 degrees
turn to heading -180 degrees
drive reverse for 920 mm
```

turn

right ▼

for

90

degrees

turn

right ▼

for

90

degrees

turn to heading 90 degrees

repeat

10

turn

right ▼

for

180

degrees

drive forward for 1400 mm

turn right for 90 degrees

drive forward for 500 mm

drive forward for 750 mm

drive forward for 450 mm

spin ArmMotor down for 90 turns

spin IntakeMotor outtake for 90 degrees

drive forward for 200 mm

drive reverse for 300 mm

turn right for 180 degrees

drive forward for 200 mm

spin IntakeMotor intake for 5 turns

turn right for 180 degrees

drive forward for 500 mm

spin IntakeMotor outtake for 90 degrees

wait 1 seconds

drive forward for 200 mm

spin IntakeMotor outtake for 90 degrees

drive reverse for 700 mm

spin

IntakeMotor ▼

outtake ▼

for

90

degrees ▼

turn

right ▼

for

180

degrees

spin IntakeMotor intake for 90 degrees

repeat 6

turn right for 180 degrees

spin IntakeMotor outtake for 90 degrees

wait 0.5 seconds

turn right for 180 degrees

spin IntakeMotor intake for 90 degrees

turn right for 180 degrees

drive forward for 500 mm

set

Rotation ▼

position to

90

degrees

turn

left ▼

for

180

degrees

spin

IntakeMotor ▼

outtake ▼

for

90

degrees ▼

turn to heading **90** degrees

turn **right** for **180** degrees

turn

right ▼

for

90

degrees

spin ArmMotor down for 20 turns

spin IntakeMotor intake for 90 degrees

turn left for 90 degrees

drive forward for 300 mm

spin IntakeMotor outtake for 90 degrees

wait 1 seconds

drive reverse for 200 mm

turn right ▼ for 90 degrees

drive forward ▼ for 300 mm ▼

turn left ▼ for 90 degrees

spin

IntakeMotor ▼

outtake ▼

for

2

turns ▼

and don't wait

drive

forward ▼

for

200

mm ▼

drive

forward ▼

for

400

mm ▼

drive forward ▼ for 1900 mm ▼

spin ArmMotor ▼ up ▼ for 2 turns ▼

turn to heading 90 degrees

drive reverse ▼ for 800 mm ▼

spin ArmMotor ▼ up ▼ for 40 turns ▼

drive forward ▼ for 2000 mm ▼

turn to heading -70 degrees

spin IntakeMotor ▼ intake ▼ for 2 turns ▼

turn to heading 40 degrees

drive forward for 500 mm

spin IntakeMotor outtake for 2 turns

turn to heading -32.5 degrees

drive forward for 2199 mm

spin IntakeMotor intake for 2 turns

turn to heading 125 degrees

drive forward for 600 mm

spin IntakeMotor outtake for 2 turns

turn to heading 42 degrees

drive forward for 1250 mm

spin IntakeMotor intake for 2 turns

turn to heading 180 degrees

drive forward for 100 mm

spin IntakeMotor outtake for 2 turns

turn to heading -85 degrees

drive forward for 1000 mm

spin IntakeMotor intake for 2 turns

turn to heading 90 degrees

drive forward for 700 mm

turn to heading 140 degrees

drive forward for 200 mm

spin IntakeMotor outtake for 2 turns