

VEXcode VR

Miguel Villegas

Matias Candanoza

Valentina Prada

Matthew Rojas



10821G

Barranquilla/Colombia

```
when started
  We set angle value and repetitions
  set angulo to 270
  set repeticiones to 0
  We set Speed Values for each system
  set drive velocity to 500 %
  set turn velocity to 100 %
  set IntakeMotor velocity to 100 %
  set ArmMotor velocity to 100 %
  spin ArmMotor down for 1400 degrees and don't wait
  drive forward for 1200 mm
  turn to heading 270 degrees
  spin IntakeMotor descartar
  wait 0.3 seconds
  turn to heading 0 degrees
  spin IntakeMotor consumo
  drive forward for 300 mm
  turn to heading 270 degrees
  spin IntakeMotor descartar
  wait 0.8 seconds
  turn to heading 0 degrees
  drive reverse for 900 mm
  turn to heading 225 degrees
  spin IntakeMotor consumo
  drive forward for 730 mm
  spin ArmMotor down for 500 degrees
  Repetitive cycle starts
```

```
repeat 5
  wait 0.2 seconds
  turn to heading 90 degrees
  Raise the motor arm to 950 degrees and don't wait
  spin ArmMotor up for 950 degrees and don't wait
  wait 0.2 seconds
  This one targets a specific coordinate
  drive reverse for 1200 mm
  spin IntakeMotor descartar
  drive reverse for 300 mm
  turn to heading angulo degrees
  wait 0.2 seconds
  a variable called repeats is added to its same value plus its value plus 1
  change repeticiones by repeticiones + 1
```

```
The code inside the condition's block is executed.
if repeticiones < 20 then
  turn to heading 225 degrees
  turn to heading 270 degrees
  spin ArmMotor down for 950 degrees and don't wait
  wait 0.4 seconds
  spin IntakeMotor consumo
  drive forward for 1500 mm
  Subtract 5 from the Angle Variable
  if 1 < repeticiones then
    set angulo to angulo - 5
```

```
turn left for 33 degrees
spin ArmMotor down for 950 degrees and don't wait
drive forward for 1500 mm
spin IntakeMotor consumo
wait 0.4 seconds
spin ArmMotor up for 950 degrees and don't wait
drive reverse for 1200 mm
spin IntakeMotor descartar
drive reverse for 300 mm
turn right for 33 degrees
wait 0.2 seconds
spin ArmMotor down for 10000 degrees and don't wait
spin IntakeMotor consumo
turn to heading 90 degrees
drive reverse for 500 mm
turn to heading 0 degrees
drive forward for 300 mm
turn to heading 90 degrees
drive forward for 1000 mm
spin IntakeMotor descartar
drive forward for 600 mm
turn to heading 300 degrees
Collect the Courts and Expel Them
spin IntakeMotor consumo
drive forward for 700 mm
wait 0.3 seconds
turn to heading 90 degrees
spin IntakeMotor descartar
```

```
drive forward for 250 mm
wait 0.4 seconds
He waits to expel you
spin IntakeMotor consumo
turn to heading 320 degrees
drive forward for 550 mm
wait 0.5 seconds
turn to heading 110 degrees
spin IntakeMotor descartar
drive forward for 400 mm
wait 0.5 seconds
turn to heading 0 degrees
drive forward for 750 mm
turn to heading 270 degrees
```

```
spin IntakeMotor consumo
drive forward for 100 mm
turn right for 20 degrees
turn left for 20 degrees
drive reverse for 100 mm
drive reverse for 750 mm
turn to heading 150 degrees
spin IntakeMotor descartar
drive forward for 600 mm
turn to heading 180 degrees
wait 0.1 seconds
turn to heading 0 degrees
drive forward for 500 mm
spin IntakeMotor consumo
```

```
turn to heading 50 degrees ▶
turn to heading 180 degrees ▶
spin IntakeMotor descartar ▼
drive forward ▼ for 400 mm ▼ ▶
turn to heading 270 degrees ▶
drive forward ▼ for 1000 mm ▼ ▶
turn to heading 180 degrees ▶
drive forward ▼ for 1200 mm ▼ ▶
turn to heading 240 degrees ▶
spin IntakeMotor consumo ▼
drive forward ▼ for 400 mm ▼ ▶
drive reverse ▼ for 400 mm ▼ ▶
turn to heading 80 degrees ▶
spin IntakeMotor descartar ▼
```

```
wait 0.2 seconds
drive forward ▼ for 200 mm ▼ ▶
turn to heading 225 degrees ▶
spin IntakeMotor consumo ▼
drive forward ▼ for 750 mm ▼ ▶
drive reverse ▼ for 700 mm ▼ ▶
turn to heading 60 degrees ▶
spin IntakeMotor descartar ▼
drive forward ▼ for 500 mm ▼ ▶
drive reverse ▼ for 200 mm ▼ ▶
```