

9/19/2017

MINDEX ROBOTATHON

Setup:

- Install RobotC - <http://robotc.net/download/lego>
 - Select all default options – Complete setup
- Launch ROBOTC for Lego Mindstorms
- Help-> Add License-> Product: ROBOTC Robot Virtual Worlds -> LEGO 4.x -> Start Trial
- Help-> Manage RVW Packages-> Check RVW Level Builder-> Install/Update selected
- Publish your work to source control by forking:
<https://github.com/mwmoeller/MindexRobothon2017>

Tips & Tricks:

- Self-organize!
- Try using the Natural Language API (enable it under the Robot -> Platform Type menu)
- Iterate! Break down the work into manageable and testable pieces
- Create a test level by using the RVW Level Builder Utility
- Pair Programming!
- 1 person from each team is allowed a 2-minute look at the map for the challenge round. See Mike Moeller for your sneak peek.
 - Take notes for the path to finish
- Do Better!

General Requirements:

- You must begin from the “start” block and end at the “stop” block
- You should not hit any walls or objects
- You can go straight forward, turn left or turn right after passing over an intersection marker

General Map Information:

- The black lines perpendicular to the path denote you have approached a navigable intersection.
- Movable obstacles (cones, balls, blocks) will be scattered along the route. These are to be avoided.
 - Walls are immovable

Scoring For Challenge Round:

3 Minute Time Limit

**Time Points: Start
at 1800 points -
Subtract 10 points
per second elapsed**

**+100 points for
leaving starting box**

**Option for 2nd run if
1st run is cancelled
within 40 seconds:
forfeit start bonus**

**-10 points per
obstacle hit/moved**

**+30 points for each
successful turn of
the possible routes**

Highest score wins

Winning Team gets \$100
gift card for each
participant

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