

Courseware

Updates & News Calendar Wiki Discussion Progress

PROBLEM 4: RANDOMWALKROBOT CLASS (10 points possible)

iRobot is testing out a new robot design. The proposed new robots differ in that they change direction randomly **after every time step**, rather than just when they run into walls. You have been asked to design a simulation to determine what effect, if any, this change has on room cleaning times.

Write a new class [RandomWalkRobot] that inherits from [Robot] (like [StandardRobot]) but implements the new movement strategy. RandomWalkRobot] should have the same interface as [StandardRobot].

Test out your new class. Perform a single trial with the StandardRobot implementation and watch the visualization to make sure it is doing the right thing. Once you are satisfied, you can call runSimulation again, passing RandomWalkRobot instead of StandardRobot.

Enter your code for classes Robot and RandomWalkRobot below.

1	#	Enter	your	code	for	Robot	and	RandomWalkRobot	in	this	box
2											

Unanswered

Check Save

You have used 0 of 30 submissions

뉴

Show Discussion







EdX offers interactive online classes and MOOCs from the world's best universities. Online courses from MITx, HarvardX, BerkeleyX, UTx and many other universities. Topics include biology, business, chemistry, computer science, economics, finance, electronics, engineering, food and nutrition, history, humanities, law, literature, math, medicine, music, philosophy, physics, science, statistics and more. EdX is a non-profit online initiative created by founding partners Harvard and MIT.

© 2014 edX, some rights reserved.

Terms of Service and Honor Code

Privacy Policy (Revised 4/16/2014)

About & Company Info

About

News

Contact

FAQ

edX Blog

Donate to edX

Jobs at edX

Follow Us

Twitter



Facebook



Meetup



LinkedIn



Google+