
CSCE574 – Robotics
Spring 2014 – Homework 8

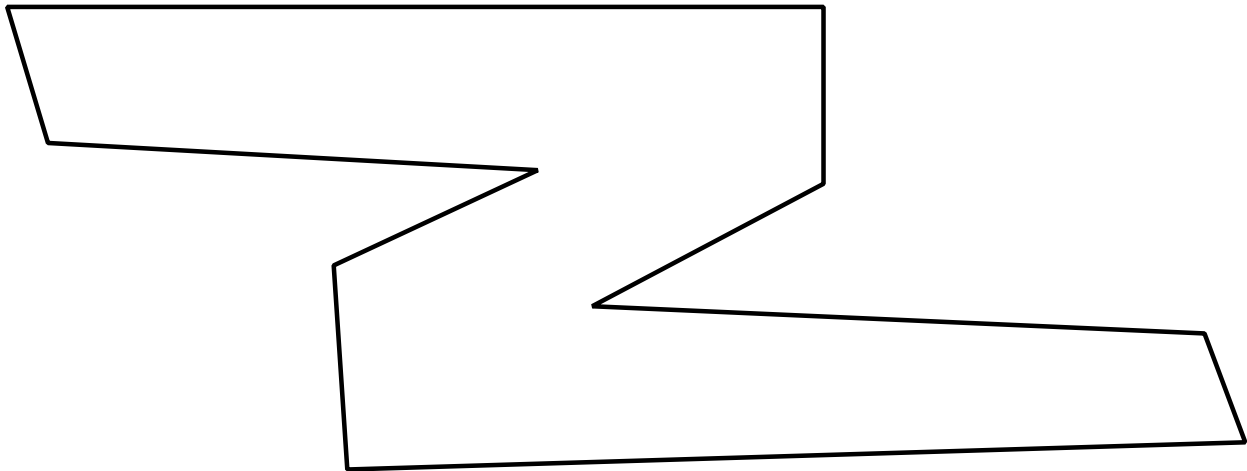
Assigned: March 20

Due: March 25

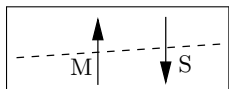
name

A robot in the environment below wants to solve the pursuit evasion problem we discussed in class.

Divide the environment into conservative regions by drawing the appropriate line segments.



For each dividing segment you drew in part (a), add **two short arrows** that cross the segment in opposite directions and **label each arrow** according to the gap change that occurs when the robot crosses that segment in that direction. Write S, M, A, or D for split, merge, appear, and disappear, respectively. As an example, you might label a dividing segment that generates split and merge events like this:



(Hint 1: Your answer should have at least one of each kind of event.)

(Hint 2: The problem does NOT ask you to draw the information graph, nor to show a path for the pursuer.)