## Graph-based Planning Methods

4 questions



1.

If you use the Grassfire or breadth first search procedure to plan a path through a grid from a node A to a node B, then you use the same procedure to plan a path from node B to node A, will the two paths have the same length?

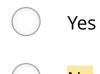


O No

1 point

2.

If you use the Grassfire or breadth first search procedure to plan a path through a grid from a node A to a node B, then you use the same procedure to plan a path from node B to node A, are the two paths guaranteed to be the same except in opposite directions?



1 point

3.

If you use the grassfire algorithm to plan a path through a series of grids with increasing dimension, 2 dimensional, 3 dimensional, 4 dimensional etc. The amount of computational effort required increases with the dimension of the problem.		
	linearly	
	logarithmically	
	exponentially	
	quadratically	
1 point  4.  Generally speaking, which procedure would take less time to find a solution to a typical path planning problem on a discrete grid or graph?  Grassfire/Breadth first search  Dijksta's algorithm  A*		
4 questions unanswered		
Submit Quiz		

