

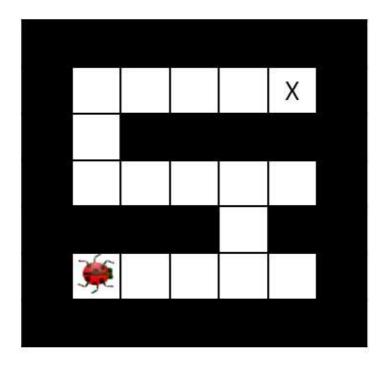
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hw1_search_q5_hive_minds_lonely_bug

Question 5: Hive Minds: Lonely Bug

9/9 points (ungraded)

You control a single insect as shown in the maze below, which must reach a designated target location X, also known as the hive. There are no other insects moving around.



Which of the following is a *minimal* correct state space representation?

- lacksquare An integer $oldsymbol{d}$ encoding the Manhattan distance to the hive.
- ullet A tuple (x,y) encoding the x and y coordinates of the insect. \checkmark
- lacktriangle A tuple (x,y,d) encoding the insect's $m{x}$ and $m{y}$ coordinates as well as the Manhattan distance to the hive.

•	$MN \checkmark$
\supset	$(MN)^2$
\supset	2^{MN}
\supset	M^N
\supset	N^M
	$\max{(M,N)}$
nic	$\max{(M,N)}$ th of the following heuristics are admissible (if any)? Manhattan distance from the insect's location to the hive.
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nic	th of the following heuristics are admissible (if any)? Manhattan distance from the insect's location to the hive. Euclidean distance from the insect's location to the hive.