Practice-Questions

Number of participants: 58

1. Which of the following types of agents does not fit the standard classification of agents that was discussed in Inf2D?

47 correct answers out of 47 respondents

Option	%	Votes
Model-based Reflex Agent	0%	0 votes
Simple Reflex Agent	0%	0 votes
Utility-based Agent	0%	0 votes
✓ Norm-based Agent	100%	47 votes
Goal-based Agent	0%	0 votes

2. **In which of the following search strategies are all the nodes expanded at a given depth in the search tree before expanding any nodes at the next level?**

9 correct answers
out of 51 respondents

Best-first search	4%	2 votes
Depth-first search	8%	4 votes
✓ Depth-limited search	18%	9 votes
Breadth-first search	71%	36 votes
Bidirectional search	0%	0 votes

3. **Alpha-beta pruning always shortens the search space.**

38 correct answers
out of 45 respondents

True	16%	7 votes
✓ False	84%	38 votes

4. **[tree on slide] Apply the minimax algorithm to assign values to each node. What is the value of the node a?**

✓ 4   88%   28 votes

-3   9%   3 votes

-7   0%   0 votes

7   3%   1 vote

-18   0%   0 votes

5. **[tree on slide] Using the alpha/beta search algorithm on the search tree above (going depth-first,left-to-right), which node will NOT be visited?**

a	5%	1 vote
b	20%	4 votes
c	5%	1 vote
d	5%	1 vote
✓ e	65%	13 votes