### Q1-1: Can you successfully respond to BBCollaborate poll questions?



Q1-2: Which module topic from the course website <u>https://happyharrycn.github.io/CS540-Fall20/schedule/</u> are you most excited about?

- 1. Search
- 2. Mathematical Foundation of AI
- 3. Game Theory
- 4. Machine Learning Part I
- 5. Machine Learning Part II
- 6. Applications and Ethics of Al

Q1-3: How can you ask questions during the synchronous lecture?

- 1. Email the instructor
- 2. Use BBCollaborate chat
- 3. Post on the Piazza live Q&A



4. Unmute yourself and ask verbally on BBCollaborate

## Q1-4: Has the GPT-3 model achieved artificial general intelligence?

- 1. Yes
- 2. No
- 3. Not sure

# Q1-5: What do you have permission to do with recorded lectures and discussions?

- 1. Share them with friends, as long as it is private
- 2. Post them to YouTube
- 3. Keep a local copy on your computer for your own viewing



### Q1-6: Where can you go for help with CS 540 questions?

- 1. Attend instructor, TA, and peer mentor office hours
- 2. Post on Piazza
- 3. Post on Canvas
- 4. Email the instructors, TAs, or peer mentors
- 5. Only 1 and 2



#### Q2-1: Which of these is a valid Python function?

def my\_fun\_1():
 print("inside function 1")



- 2. def void my\_fun\_2():
  print("inside function 2")
- 3 def my\_fun\_3()
  print("inside function 3")
- 4. def my\_fun\_4():
  print("inside function 4")

### Q2-2: Which of these will print 0 1 2 3 (one number per line)

- for i in range(3):
  print(i)
- 2. for i in range(4):
  print(i)



- 3. for i in range(4):
  print('i')

Q2-3: In Python, classes are...

- 1. Required before writing any function
- 2. No allowed
- 3. Optional



# Q2-4: After running the following code, what is stored in list2? list1 = [5, 3, 1]

list2 = [i - 2 for i in list1]

[-1, 1, 3]

- 2. [2, 2]
- 3. [3, 1, -1]

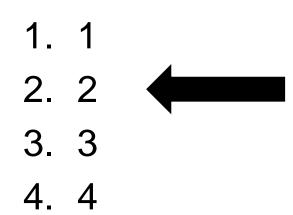


## Q3-1: What is the minimum we need to define to run an uninformed search algorithm?

- Initial states, goal states, state space, successor function
- 2. Initial states, goal states, state space, successor function, edge costs



 Initial states, goal states, state space, successor function, edge costs, scores for non-goal states Q3-2: How many minimum cost solutions are there to the farmer crossing the river problem?



Q3-3: Does the successor function always need to return a non-empty set of states reachable from s?

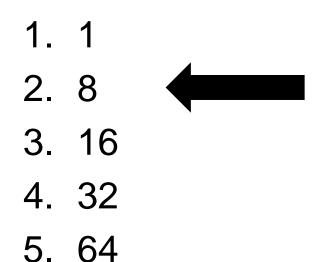
Yes
 No

Q3-4: In the complete configuration of the 8-queens problem how many successor states does the initial state have?

- 1. 1
- 2. 8
- 3. 16
- 4. 32



Q3-5: In the column-by-column configuration of the 8-queens problem how many successor states does the initial state have?



### Q3-6: What is the fringe during a search?

- 1. The states we know nothing about
- 2. The states we have visited
- 3. The states that have been returned by the successor function that have not been visited

