

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

1. Yes



2. No

Q1-2: Which module topic from the course website <https://happyharrycn.github.io/CS540-Fall20/schedule/> 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 AI

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?

1.

```
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)

1.

```
for i in range(3):  
    print(i)
```

2.

```
for i in range(4):  
    print(i)
```



3.

```
for i in range(4):  
    print('i')
```

4.

```
for i in range(3)  
    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, 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?

1. Initial states, goal states, state space, successor function
2. Initial states, goal states, state space, successor function, edge costs
3. 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?

1. 1

2. 2



3. 3

4. 4

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

1. Yes

2. 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
5. 64



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

1. 1
2. 8
3. 16
4. 32
5. 64



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

