End of Week 2 Quiz (complete project and peer review first)

✓ 9/9 questions correct

Quiz passed!

✓ 1.

What is the running time of the breadth first search (BFS) algorithm in the worst case?

○ $O(V^2)$

○ $O(V)$

○ $O(E + V)$

Well done!
Great! This is the correct answer.

✓ 2.

Which of the following is true about code refactoring? Select all that apply.

☑ It is common during code development

Well done!
The second lesson this week talked about class design and refactoring. In particular watch the lecture: Core: Class Design, Part 2

☐ It should be avoided unless absolutely necessary

Well done!
The second lesson this week talked about class design and refactoring. In particular watch the lecture: Core: Class Design, Part 2

☑ It refers to the process of changing the structure of the code without changing its functionality

Well done!
The second lesson this week talked about class design and refactoring. In particular watch the lecture: Core: Class Design, Part 2

☐ It generally changes the code's public interface.

Well done!
The second lesson this week talked about class design and refactoring. In particular watch the lecture: Core: Class Design, Part 2. Pay particular attention to the difference between redesign and refactoring.

✔ 3.

Which of the following is/are true about Depth First Search (DFS)?

☐ In the worst case, depth first search is more efficient than breadth first search

> **Well done!**
> Review the concept challenge for this week.

☐ DFS usually finds a shorter path (in terms of number of nodes) than BFS

> **Well done!**
> Review the lectures on DFS and BFS and consider the paths they produced.

☑ DFS uses a Stack to hold the list of unexplored nodes.

> **Well done!**
> Review the lecture of DFS, particularly part 2.

☑ DFS has a straightforward recursive solution.

> **Well done!**
> Review the end of the lecture on DFS.

☑ DFS will always find a path from Start to Goal if there is one.

> **Well done!**
> This information was not directly mentioned, but you can reason about whether this is true or not. If necessary, review the DFS videos and trace through several examples.

✔ 4.

Which of the following is the better representation for the MapGraph graph that you implemented in the programming project this week?

○ Adjacency List

> **Well done!**

Consider how many nodes there are vs. how many edges each node is likely to have.

○ Adjacency Matrix

✔ 5.

How many hours did you spend on the programming assignment this week?

○ Less than 1 hour

○ 1-2 hours

○ 2-3 hours

○ 3-4 hours

○ 4-5 hours

○ More than 5 hours

✔ 6.

How difficult did you find the programming assignment?

○ Very easy

○ Pretty easy

○ Neither easy nor difficult

○ Pretty difficult

○ Very difficult

✔ 7.

How much did you enjoy the programming assignment?

○ I really enjoyed it!

○ I enjoyed it

○ I'm neutral about my enjoyment

○ I did not enjoy it

○ I really did not enjoy it

✔ 8.

How difficult did you find it to provide a review of your peers' designs in the peer review assignment?

○ Very easy

○ Pretty easy

○ Neither easy nor difficult

○ Pretty difficult

○ Very difficult

✔ 9.

How much time did completing **one** peer review take, on average?

○ Less than 15 minutes

○ 15-30 minutes

○ 30-60 minutes

○ More than 60 minutes