

Module 6: 6.1 Quiz (Greedy algorithm, Change-making)

Due Oct 23, 2022 at 11:59pm

Points 3

Questions 3

Time Limit None

Attempt History

	Attempt	Time	Score
LATEST	<u>Attempt 1</u>	2 minutes	3 out of 3

Score for this quiz: **3** out of 3

Submitted Oct 20, 2022 at 2:21pm

This attempt took 2 minutes.

Question 1

1 / 1 pts

Free point!



☒ Choose this one!

Correct. This is a false statement.



Correct!

Question 2

1 / 1 pts

Assuming US Currency, what is the number of coins the greedy algorithm will output for paying 68¢?

☐ 8

Correct!

☒ 7

Correct. The coins are 25, 25, 10, 5, 1, 1, and 1. That is 7 coins.

☐ 5

☐ 6

Question 3

1 / 1 pts

3. What is the complexity of the Change-making algorithm described in this module?

(The amount is specified by n bits.)

☐ $O(1)$

☐ $O(n \log n)$

Correct!

☒ $O(n)$

Correct.

☐ $O(\log n)$

Quiz Score: **3** out of 3