

# Quiz 6: Protocols and Saving data

**Due** Oct 27 at 1:35pm**Points** 9**Questions** 2**Available** Oct 27 at 1:30pm - Oct 27 at 1:35pm 5 minutes**Time Limit** 5 Minutes

## Instructions

This is a quiz that will evaluate how well you understood protocols and saving data. It has two questions that you need to answer in five minutes. You have one attempt at this quiz.

This quiz was locked Oct 27 at 1:35pm.

## Attempt History

	Attempt	Time	Score
LATEST	<a href="#">Attempt 1</a>	2 minutes	9 out of 9 *

\* Some questions not yet graded

Score for this quiz: **9** out of 9 \*

Submitted Oct 27 at 1:33pm

This attempt took 2 minutes.

### Question 1

**3 / 1 pts**

Which among the following statements are true about protocols? Select all that apply.

☐ Protocols only work with functions.

☐ Protocols contain implementations for all its member functions and properties.

**Correct!**

☒ All properties and functions in the protocol need to be implemented by classes that inherit from it.

**Correct!**☒ Classes can implement multiple protocols.**Question 2****6 / 1 pts**

Explain the following code.

```
let documentsDirectory = FileManager.default.urls(for:
.documentDirectory, in: .userDomainMask).first!
let archiveURL =
documentsDirectory.appendingPathComponent("contacts").
appendingPathExtension("plist")
```

[ Select ]



```
if let encodedContact = try?
propertyListEncoder.encode(newContact) {
    try? encodedContact?.write(to: archiveURL, options:
.noFileProtection)
}
```

[ Select ]



```
if let retrievedContact = try? Data(contentsOf: archiveURL),
    let decodedContact = try?
propertyListDecoder.decode(Contact.self, from:
retrievedContact) {

    loadedContact = decodedContact
}
```

[ Select ]

**Answer 1:****Correct!**

Retrieves the file URL in the sandbox

**Answer 2:****Correct Answer**

Write the data to the sandbox

**You Answered**

Encode the data

**Answer 3:****Correct!**

Load data from the sandbox

Quiz Score: **9** out of 9