

## Northeastern University

## CS 2100: Program Design and Implementation 1

# Practice Quiz 1

#### Instructions

- Please put all of your answers on the answer sheet. Only the answer sheet will be graded.
- Do not begin the quiz until instructed to do so.
- You may use both sides of a sheet of paper up to 8.5"x11" for reference, but no other resources, including phones, computers, Al, headphones, and ear pods.
- You have until the end of the class period to complete the quiz.
- Students may not leave the classroom during the first 10 minutes of the quiz (except in case of emergency).
- Hand your completed answer sheet to an instructor before leaving the room.
- Talk to an instructor if you need to leave the room and reenter.

### Using objects

Here is a class that holds the data for an assignment, such as Homework 1:

```
is before the due time, run it through the autograder and
store the score in the submission"""

if submission.submission_time < self.due_time:
    score: float = self.run_autograder(submission.content)
    ____ = score # 2
    _____append(submission) # 3</pre>
```

Here is a class that holds the data for a single student's submission for an assignment:

## Classes: constructors, methods, and attributes

```
Here is a __str__() method that goes inside the Submission class:

def __str__(self) -> str:
    """Return the name of the student, plus the submission time, to identify the submission.

Example: "Joseph Aoun at 2025-01-20 14:34"
    """
    return ____ # 5
```

Here is a method that goes inside the Assignment class:

# **Unit testing**

Let's test the two Assignment methods. Here are two test methods testing the get\_most\_recent\_graded\_student\_submission() function in two cases: where there is a submission before and after the due date, and where all submissions are after the due date.

self.assertEqual(	).#	10
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### 11. Select the statement which is true:

- a. The submissions that were added to self.hw1 in the test function test\_one\_before\_one\_after\_due\_date() are still there in test\_all\_after\_due\_date().
- b. self.hw1 gets re-assigned a new Assignment value before each test function.
- c. If test\_one\_before\_one\_after\_due\_date() fails, then test\_all\_after\_due\_date() will not run.
- d. It is not possible to have two different Submission objects with the same student and submission time (if the student makes two submissions within the same minute).

#### 12. Select the statement which is true:

- a. The two tests cover all possible edge cases for get\_most\_recent\_graded\_student\_submission()
- b. The two tests cover all possible negative cases for get\_most\_recent\_graded\_student\_submission()
- c. There are no edge cases tested.
- d. There are no negative cases tested.