Midterm Test — Sample Solutions

CSC148H1 / LEC0101/0102/0201 — Horton and Badr

Solution:
Winter 2020 — Duration: **110 minutes**

Question 1. [10 marks]

Here's the start of some code for managing rooms in the department of Computer Science.

```
class Room:
    """
    === Public Attributes ===
    users: the names of people who have key access to this Room.
    """
    users: List[str]

    def __init__(self) -> None:
        self.users = []

    def give_key_access(self, person: str) -> None:
        """Record that <person> has key access to this room, if they don't
        already have access.
        """
        if person not in self.users:
            self.users.append(person)
```