

# **BLG 252E Object Oriented Programming Homework 1**

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Lecturer: Feza Buzluca CRN: 23136

**Fatih Baskın**

150210710

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## Problem 1

Starting with the statement `university_array[3].evaluate_student(student3);`, list the methods invoked by which objects and the arguments sent to those methods until the end of the program.

1. `void evaluate_student(const Student&) const`

- **Invoked by:** Automatic variable `university_array[3]` object (`University` class).
- **Arguments:** A constant reference to `student3` object (`Student` class).

2. `double get_gpa() const`

- **Invoked by:** Automatic variable `student3` object (`Student` class).
- **Arguments:** None.

3. `int get_gre() const`

- **Invoked by:** Automatic variable `student3` object (`Student` class).
- **Arguments:** None.

4. `int get_toefl() const`

- **Invoked by:** Automatic variable `student3` object (`Student` class).
- **Arguments:** None.

5. `int get_number_of_applications() const`

- **Invoked by:** Automatic variable `student3` object (`Student` class).
- **Arguments:** None.

6. `void set_number_of_applications(int) const`

- **Invoked by:** Automatic variable `student3` object (`Student` class).
- **Arguments:** `x.get_number_of_applications() + 1`.

7. `~Student()`

- **Invoked by:** Dynamically declared `student4` object (`Student` class).
- **Arguments:** None.

8. `~Student()`

- **Invoked by:** Automatic variable `student3` object (`Student` class).
- **Arguments:** None.

9. `~Student()`

- **Invoked by:** Automatic variable `student2` object (`Student` class).
- **Arguments:** None.

10. `~Student()`

- **Invoked by:** Automatic variable `student1` object (`Student` class).
- **Arguments:** None.

11. `~University()`

- **Invoked by:** Automatic variable `university_array[3]` object (`University` class).
- **Arguments:** None.

12. `~University()`

- **Invoked by:** Automatic variable `university_array[2]` object (`University` class).
- **Arguments:** None.

13. `~University()`

- **Invoked by:** Automatic variable `university_array[1]` object (`University` class).
- **Arguments:** None.

14. `~University()`

- **Invoked by:** Automatic variable `university_array[0]` object (`University` class).
- **Arguments:** None.