

## CSCI 25 Project 1 Clarifications on Allowed Functions and Operators

The following functions/methods from the Python Standard Library **MAY** be used:

- `random()` (from the `random` module)
- `upper()` or `lower()`

Make sure you cite your sources.

The following functions/methods from the Python Standard Library may **NOT** be used:

- `pop()`
- `remove()`
- `join()`

`pop()` and `remove()` can be used to remove items from a list.

`join()` can be used to concatenate strings in a list.

Clarifications regarding the `in` operator:

- The `in` operator **MAY** be used in a for loop header (e.g. `for n in nums`)
- The `in` operator may **NOT** be used as a comparison operator (e.g. `'A' in ['A', 'B', 'C']`)

The `in` operator as a comparison operator returns `True` if the value being checked can be found in the sequence (e.g. `'A' in ['A', 'B', 'C']` returns `True`, but `'D' in ['A', 'B', 'C']` returns `False`).

Instead of using these functions/methods and operators, you are expected to implement the relevant features using some combination of the following tools and constructs: loops, conditionals, lists, and list comprehensions. Emphasis on **some combination**. You are **NOT** required to use all of them for every single feature.

If you wish to use other commands not clarified in this list, please email any of your instructors first before proceeding.

### Rationale behind these restrictions:

Project 1 serves to assess your understanding of the fundamental topics discussed so far, but the use of the aforementioned functions and operators removes the rigor that is required in order to obtain a clear assessment, hence the restrictions. But outside of these course assessments, we encourage you to use these other tools and constructs in order to deepen your understanding of the Python language.