CS240 Notes

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## 1 Course Objectives

What is this course about?

- When first learning to program, we emphasize correctness
- Starting with this course, we will also be converned with efficiency
- We will study efficient methods of storing, accessing, and performing operations on large collections of data.
- Typical operations include: inserting new data items, deleting data items, searching for specific data items, sorting
- We will consider various abstract data types (ADTs) and how to implement them efficiently using appropriate data structures.
- There is a strong emphasis on mathematical analysis in the course
- Algorithms are presented using pseudocode and analyzed using order notation (big-O, etc.)

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