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# Overview of Module 1

Module 1 will focus on divide and conquer algorithms.

- We have seen examples of divide and conquer algorithms in previous courses, such as mergesort and quicksort algorithms.
- We will study more algorithms that fit this design paradigm.
- We will study Fast Fourier Transforms (FFT), a particularly useful divide and conquer algorithm that has wide applications in data analysis.
- FFT requires familiarity with complex numbers and their properties. A brief introduction is provided, along with pointers to further resources.

## Assignments

We will have quizzes after most of the lessons in this module. These quizzes are multiple choice, and you will have unlimited attempts to solve them/get them right.

### Programming Assignment

We will have a programming assignment that will help you approach the development of algorithms related to what we study in this module.

✓ **Completed**

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