# Merge Sort Activity

Imagine you are a teacher who needs to **sort a list of students by their grades** for an end-of-term report. The grades should be sorted in **order** (from the highest grade to the lowest) to identify the top-performing students.

Requirements:

**MergeSort Method:**

* takes in array
* copies and splits array into array A & B
* returns if array only consists of one element
* recursively divides the inputted array until they’re split into arrays of one element
* calls Merge method

**Merge Method:**

* takes in initial array alongside the split arrays A & B
* compares array A to array B to find which one is smaller and puts the element into the initial array
* copies left overs from array A & B to initial array at right index

**Main Method:**

* asks user for multiple grades
* stores user answer into an array studentGrades
* to sort calls MergeSort method studentGrades
* prints the sorted array