

Assignment 2

Due: Thursday, February 27, 2025 (11:59 pm)

Submission via Git only

Evaluation

Assignment 2 grading scheme is as follows. In general, straying from the assignment requirements might result in zero marks due to automated grading.

Scheme

- **(60%) # Tests Passed**
- **(40%) Code Qualitative Assessment**
 - **(20%) Functional decomposition, program-scope or file-scope variables:** quality coding requires the good use of functions. Code that relies on few large functions to accomplish its goals is considered poor-quality code. Typically, a good program has a main function that does some basic tasks and calls other functions that do most of the work.
 - **(20%) Code structure:** The code style must be consistent, uniform, and facilitate readability throughout the file.
 - **(15%) Proper naming conventions:** You must use proper names for functions and variables. Using random or single character variables is considered improper coding and significantly reduces code readability. Single character variables as loop variables is fine.
 - **(15%) Typing:** to facilitate readability and maintainability in your solution, typing (i.e., type hints) is required for this assignment when declaring variables and functions.
 - **(10%) Debugging/Comment artifacts:** You must submit a clean file with no residual commented lines of code or unintended text.
 - **(10%) Documentation and commenting:** the purpose of documentation and commenting is to write information so that anyone other than yourself (with knowledge of coding) can review your program and quickly understand how it works. In terms of marking, documentation is not a large mark, but it will be part of the quality assessment.
 - **(10%) Quality of solution:** marker will access the submission for logical and functional quality of the solution. Some examples that would result in a reduction of marks: solutions that read the input files several times, solutions that represent the data in inappropriate data structures, solutions which scale unreasonably with the size of the input.

Scale

A grade		B grade		C grade		D grade		F grade		
grade	marks	grade	marks	grade	marks	grade	marks	grade	marks	description
A+	90-100	B+	77-79							
A	85-89	B	73-76	C+	65-69					
A-	80-84	B-	70-72	C	60-64	D	50-59	F	0-49	