

## Coding Rubric

Component	Level of Performance			
	Excellent (4pts)	Good (3pts)	Satisfactory (2pts)	Needs improvement (1pt)
Algorithm	The algorithm for solving the problem is easy to understand, would result in a correct solution, and shows clear consideration for potential boundary conditions.	The algorithm would result in a correct solution for most cases, but may not be easy to understand or show clear consideration for potential boundary conditions.	The algorithm shows an understanding of the problem but may be missing a piece or two resulting in an incorrect solution for some cases.	The algorithm is hard to follow and missing pieces resulting in an incorrect solution for most cases.
Data structures	The solution to the problem uses the most time and space efficient data structures.	The solution sacrifices space or time efficiency for ease of understanding or improvements in the other.	The solution uses one or two data structures that make the steps of the solution hard to follow.	The solution attempts to use data structures that cannot properly represent the data.
Coding	The code written to solve the problem is clear, uses concepts like loops and conditionals to be concise, aligns with the described algorithm, and aligns with standard style practices.	The code written to solve the problem aligns with the described algorithm but may contain a few unnecessary lines or lines that do not align with standard style practices.	The code written to solve the problem aligns with the described solution but does not make use of concepts like loops and conditionals to create concise code making it hard to follow.	The code written to solve the problem does not match the described algorithm and lacks loops and conditionals needed to be easy to follow.
Functionality	The solution runs properly and results in a	The solution runs properly and results in	The solution runs but does not result in a	The solution does not run

	correct solution for all test cases.	correct solutions for all but the boundary condition test cases.	correct solution for basic test cases.	for any test cases.
Testing	The provided solution has test examples that cover all cases.	The provided solution has test cases to cover all basic cases but may be missing examples for boundary conditions.	The provided solution addresses most basic test cases but some are missing.	No potential test cases were provided.