

CSC369: Assignment 1 (malloc)

	Missing or Not Acceptable (0)	Major Issues Identified (3)	Minor Issues Identified (4)	Excellent (5)	Comments
Phase 1: Functionality 1. Allocation 2. Reallocation (30%)	<i>mymalloc</i> or <i>free</i> crashes in one or more testcases.	<i>mymalloc</i> is unable to allocate all available memory.	<i>mymalloc</i> allocates all available memory, but some freed memory cannot be reallocated. No coalescing is expected.	1. <i>mymalloc</i> allocates all available memory. 2. <i>myfree</i> releases memory allocated by <i>mymalloc</i> , and that memory can be reallocated.	
Phase 1: Design Document 1. Grammar and clarity 2. Required elements (10%)	1. Structures and algorithms cannot be understood from the explanations provided. <i>or</i> 2. One of the two required topics is not addressed	The level of detail provided is inappropriate (either too much or too little), hindering the reader's ability to understand the structures and algorithms presented.	The document contains several repeated grammatical errors that hinder understanding, but topics are addressed effectively.	1. The document is largely free of grammatical errors, and topics are addressed effectively. 2. Both topics are fully addressed.	
Phase 2: Functionality 1. Allocation 2. Reallocation (30%)	<i>mymalloc</i> or <i>free</i> crashes in one or more functionality testcases.	<i>mymalloc</i> is unable to allocate all available memory.	<i>mymalloc</i> allocates all available memory, but some freed memory cannot be reallocated. Coalescing is expected.	1. <i>mymalloc</i> allocates all available memory. 2. <i>myfree</i> releases memory allocated by <i>mymalloc</i> , and that memory can	

				be reallocated.	
Phase 2: Optimization 1. Space efficiency 2. Time efficiency (20%)	No evidence of optimization.	1. Minor space inefficiencies can be identified. <i>and</i> 2. <i>myfree</i> is inefficient in common cases.	1. Minor space inefficiencies can be identified. <i>or</i> 2. <i>myfree</i> is inefficient in common cases.	1. Overhead for tracking allocations is minimized. 2. The average execution time for a mix of <i>mymalloc</i> and <i>myfree</i> operations is reasonable.	
Phase 2: Design Document 1. Grammar and clarity 2. Required elements (10%)	1. Structures and algorithms cannot be understood from the explanations provided. <i>or</i> 2. Design decisions are not justified.	Design decisions are justified, but the evidence provided is insufficient or not entirely correct.	The document contains several repeated grammatical errors that hinder understanding, but topics are addressed effectively.	1. The document is largely free of grammatical errors, and topics are addressed effectively. 2. Design decisions are justified with appropriate arguments.	