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		Thursday, 12 June 2025, 2:52 PM
		Finished
		Thursday, 12 June 2025, 3:02 PM
		10 mins 23 secs
		24.00/25.00
	Grade	<b>96.00</b> out of 100.00
Question 1		
Complete		
Mark 1.00 o	ut of 1.00	
Which c	of the followin	ng causes a memory leak?
○ a.	Page fault	
○ b.	Stack overflo	ow
○ c.	Double freei	ing a pointer
d.	Allocating m	nemory without freeing it
Question 2		
Complete		
Mark 1.00 o	ut of 1.00	
		ng is a sign of stack overflow?
	High CPU us	
○ b.	Unfreed mer	mory
○ c.	Infinite loop	
d.	Function rec	cursion without base case
Question 3		
Complete		
Mark 1.00 o	ut of 1.00	
The stac	k grows:	
○ a.	Upward in m	nemory
<ul><li>b.</li></ul>	Downward in	in memory
○ c.	Both	
	Randomly	
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Question 4
Complete
Mark 1.00 out of 1.00
The OS swaps memory pages to disk to:
a. Increase cache size
b. Manage memory more efficiently
○ c. Free CPU registers
○ d. Improve network speed
Question 5
Complete  Mark 1.00 out of 1.00
Walk 1.00 Out of 1.00
What is the purpose of the `malloc()` function in C?
a. Allocate static memory
<ul><li>b. Allocate memory on heap</li></ul>
C. Allocate memory on stack
d. Free memory
Question 6
Complete
Mark 1.00 out of 1.00
Memory compaction is used to solve:
a. Internal fragmentation
b. Stack overflow
○ c. Page fault
d. External fragmentation
Question 7
Complete
Mark 1.00 out of 1.00
In virtual memory, what happens when a required page is not in memory?
a. TLB Miss
b. Page Fault
c. Stack Overflow
d. Segmentation Fault

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Question 8
Complete
Mark 1.00 out of 1.00
Garbage collection is used in languages like Java to:
a. Prevent memory leaks
○ b. Reuse variables
c. Automatically free unused memory
○ d. Allocate memory faster
Question 9
Complete
Mark 1.00 out of 1.00
Copying garbage collectors work by:
a. Copying reachable objects to a new memory area
○ b. Swapping memory blocks
C. Deleting unused files
○ d. Freeing memory manually
Question 10
Complete
Mark 1.00 out of 1.00
Which memory is used for function call and local variable storage?
a. Stack
O b. Cache
○ c. ROM
○ d. Heap
Question 11
Complete
Mark 0.00 out of 1.00
Which of the following helps avoid memory leaks in C++?
a. Void pointers
<ul><li>b. Global variables</li></ul>
○ c. Raw pointers
Od. Smart pointers

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Question 12 Complete Mark 1.00 out of 1.00
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Which data structure is used for memory page replacement algorithms?
<ul><li>a. Queue</li></ul>
○ b. Stack
○ c. Hash Table
○ d. Linked List
Question 13
Complete  Mark 1.00 out of 1.00
Mark 1.00 Out Of 1.00
Which of the following best describes internal fragmentation?
a. Unused memory within allocated blocks
○ b. Cache misses
C. Unused memory outside allocated blocks
d. Memory leaks
14
Question 14 Complete
Mark 1.00 out of 1.00
Which of the fallowing is NOT a valid magnety allocation function in C/C : 2
Which of the following IS NUL a valid memory allocation function in C/C ++/
Which of the following is NOT a valid memory allocation function in C/C++?
a. realloc
<ul><li>a. realloc</li><li>b. malloc</li><li>o. alloc</li></ul>
<ul><li>a. realloc</li><li>b. malloc</li></ul>
<ul><li>a. realloc</li><li>b. malloc</li><li>o. alloc</li></ul>
a. realloc b. malloc c. alloc d. calloc
<ul><li>a. realloc</li><li>b. malloc</li><li>o. alloc</li></ul>
<ul> <li>a. realloc</li> <li>b. malloc</li> <li>c. alloc</li> <li>d. calloc</li> </ul> Question 15
<ul> <li>a. realloc</li> <li>b. malloc</li> <li>c. alloc</li> <li>d. calloc</li> </ul> Question 15 Complete
<ul> <li>a. realloc</li> <li>b. malloc</li> <li>c. alloc</li> <li>d. calloc</li> </ul> Question 15 Complete
a. realloc b. malloc c. alloc d. calloc  Question 15  Complete  Mark 1.00 out of 1.00
a. realloc b. malloc c. alloc d. calloc  Question 15  Complete Mark 1.00 out of 1.00  What does the operating system use to translate virtual addresses to physical addresses?
<ul> <li>a. realloc</li> <li>b. malloc</li> <li>c. alloc</li> <li>d. calloc</li> </ul> Question 15 Complete Mark 1.00 out of 1.00 What does the operating system use to translate virtual addresses to physical addresses? <ul> <li>a. Stack Pointer</li> </ul>
<ul> <li>a. realloc</li> <li>b. malloc</li> <li>c. alloc</li> <li>d. calloc</li> </ul> Question 15 Complete Mark 1.00 out of 1.00 What does the operating system use to translate virtual addresses to physical addresses? <ul> <li>a. Stack Pointer</li> <li>b. Memory Table</li> </ul>

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Question 16	
Complete	
Mark 1.00 out of 1.00	
A TLB (Translation Lookaside Buffer) improves:	
a Wintered to represent address translation	
a. Virtual to physical address translation	
<ul><li>b. Swapping performance</li><li>c. Stack speed</li></ul>	
<ul><li>c. Stack speed</li><li>d. Cache access time</li></ul>	
G. Cache access time	
Question 17	
Complete	
Mark 1.00 out of 1.00	
Segmentation differs from paging because segmentation:	
a. Supports logical divisions like functions, arrays	
○ b. Has fixed-size blocks	
○ c. Is managed by hardware	
○ d. Uses TLB	
Question 18	
Complete  Mark 1.00 out of 1.00	
Complete	
Complete Mark 1.00 out of 1.00	
Complete	
Complete Mark 1.00 out of 1.00	
Complete  Mark 1.00 out of 1.00  What is a benefit of using dynamic memory allocation?	
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Complete Mark 1.00 out of 1.00  What is a benefit of using dynamic memory allocation?  a. Faster access time b. Less memory usage	
Complete  Mark 1.00 out of 1.00  What is a benefit of using dynamic memory allocation?  a. Faster access time b. Less memory usage c. No fragmentation	
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Question 20
Complete
Mark 1.00 out of 1.00
What is a "dangling pointer"?
a. A pointer to a null value
Ob. A pointer to garbage value
C. A pointer to the stack
<ul><li>d. A pointer to a freed memory location</li></ul>
a 21
Question 21 Complete
Mark 1.00 out of 1.00
What happens if you `free()` an already freed pointer in C?
a. Nothing
○ b. Segmentation fault guaranteed
○ c. Memory leak
d. Undefined behavior (possible crash)
Question 22
Complete
Complete
Complete Mark 1.00 out of 1.00
Complete
Complete Mark 1.00 out of 1.00
Complete  Mark 1.00 out of 1.00  What kind of memory allocation is used for recursion?
Complete Mark 1.00 out of 1.00  What kind of memory allocation is used for recursion?  a. Heap
Complete Mark 1.00 out of 1.00  What kind of memory allocation is used for recursion?  a. Heap  b. Stack
Complete  Mark 1.00 out of 1.00  What kind of memory allocation is used for recursion?  a. Heap  b. Stack  c. Swap space
Complete  Mark 1.00 out of 1.00  What kind of memory allocation is used for recursion?  a. Heap  b. Stack  c. Swap space
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Complete  Mark 1.00 out of 1.00  What kind of memory allocation is used for recursion?  a. Heap  b. Stack  c. Swap space  d. ROM
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c	Question 24					
C	Complete					
Ν	Mark 1.00 out of 1.00					
	The least recently used (LRU) algorithm is a type of:					
	a. Segmentation algorithm					
	○ b. Garbage collection algorithm					
	c. Page replacement algorithm					
	○ d. Memory allocation					
c	Question 25					
C	Complete					
Mark 1.00 out of 1.00						
	Which memory management technique allows non-contiguous memory allocation?					
	a. Stack Allocation					
	b. Both A and B					
	○ c. Paging					
	d Segmentation					