	Day71	OS	Quiz:	Attempt review
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Started on	
	Finished
	Thursday, 12 June 2025, 3:00 PM
Time taken	8 mins 36 secs
Marks	21.00/25.00
Grade	84.00 out of 100.00
Question 1	
Complete	
Mark 1.00 out of 1.00	
AAALA LA CALA CALA A	1.12
which of the following	ng causes a memory leak?
Allocating m	namany without freeing it
_	nemory without freeing it
b. Page fault	
c. Double free	ing a pointer
d. Stack overflo	DW .
Question 2	
Complete	
Mark 0.00 out of 1.00	
A TLB (Translation Lo	okaside Buffer) improves:
O 100 100 100 100 100 100 100 100 100 10	
	sysical address translation
b. Cache acces	s time
c. Swapping p	erformance
d. Stack speed	
Question 3	
Complete	
Mark 1.00 out of 1.00	
Copying garbage col	lectors work by:
·	
a. Freeing mer	
b. Swapping m	emory blocks
c. Deleting un	used files
d. Copying rea	chable objects to a new memory area

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Question 4
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
Question 5
Complete
Mark 0.00 out of 1.00
Which of the following helps avoid memory leaks in C++?
a. Global variables
○ b. Void pointers
○ c. Raw pointers
○ d. Smart pointers
Question 6
Complete
Complete Mark 1.00 out of 1.00
Mark 1.00 out of 1.00 Which of the following is NOT a valid memory allocation function in C/C++?
Mark 1.00 out of 1.00 Which of the following is NOT a valid memory allocation function in C/C++?
Mark 1.00 out of 1.00 Which of the following is NOT a valid memory allocation function in C/C++? a. alloc
Which of the following is NOT a valid memory allocation function in C/C++? a. alloc b. malloc
Which of the following is NOT a valid memory allocation function in C/C++? a. alloc b. malloc c. realloc
Which of the following is NOT a valid memory allocation function in C/C++? a. alloc b. malloc c. realloc
Which of the following is NOT a valid memory allocation function in C/C++? a. alloc b. malloc c. realloc d. calloc
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Which of the following is NOT a valid memory allocation function in C/C++? a. alloc b. malloc c. realloc d. calloc Question 7 Complete Mark 1.00 out of 1.00 The least recently used (LRU) algorithm is a type of:
Which of the following is NOT a valid memory allocation function in C/C++? a. alloc b. malloc c. realloc d. calloc cuestion 7 Complete Mark 1.00 out of 1.00 The least recently used (LRU) algorithm is a type of: a. Page replacement algorithm
Mark 1.00 out of 1.00 Which of the following is NOT a valid memory allocation function in C/C++? a. alloc b. malloc c. realloc d. calloc Question 7 Complete Mark 1.00 out of 1.00 The least recently used (LRU) algorithm is a type of: a. Page replacement algorithm b. Memory allocation

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Question 8	3
Complete	
Mark 1.00 o	out of 1.00
In virtua	al memory, what happens when a required page is not in memory?
○ a.	TLB Miss
O b	Segmentation Fault
	Stack Overflow
d.	Page Fault
Question 9	
Complete	
Mark 1.00 o	out of 1.00
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wnich r	memory management technique allows non-contiguous memory allocation?
	Stack Allocation
b.	Both A and B
○ c.	Paging
○ d.	Segmentation
Question 1	0
Question 1	0
Complete	
Complete	
Complete Mark 1.00 o	
Complete Mark 1.00 o	out of 1.00
Complete Mark 1.00 o	out of 1.00
Complete Mark 1.00 o	out of 1.00 s a benefit of using dynamic memory allocation?
Complete Mark 1.00 o What is a. b.	a benefit of using dynamic memory allocation? Flexibility at runtime No fragmentation
What is a. b. c.	sa benefit of using dynamic memory allocation? Flexibility at runtime No fragmentation Less memory usage
What is a. b. c.	a benefit of using dynamic memory allocation? Flexibility at runtime No fragmentation
What is a. b. c.	sa benefit of using dynamic memory allocation? Flexibility at runtime No fragmentation Less memory usage
What is a. b. c. d.	a benefit of using dynamic memory allocation? Flexibility at runtime No fragmentation Less memory usage Faster access time
What is a. b. c. d.	a benefit of using dynamic memory allocation? Flexibility at runtime No fragmentation Less memory usage Faster access time
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What is a. b. c. d.	a benefit of using dynamic memory allocation? Flexibility at runtime No fragmentation Less memory usage Faster access time
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What is a. b. c. d.	a benefit of using dynamic memory allocation? Flexibility at runtime No fragmentation Less memory usage Faster access time
What is a. b. c. d.	a benefit of using dynamic memory allocation? Flexibility at runtime No fragmentation Less memory usage Faster access time
What is a. b. c. d. Question 1 Complete Mark 1.00 o	sa benefit of using dynamic memory allocation? Flexibility at runtime No fragmentation Less memory usage Faster access time 1 put of 1.00 y compaction is used to solve:
Complete Mark 1.00 o What is a. b. c. d. Question 1 Complete Mark 1.00 o Memory a.	a benefit of using dynamic memory allocation? Flexibility at runtime No fragmentation Less memory usage Faster access time 11 out of 1.00 y compaction is used to solve: External fragmentation
What is a. b. c. d. Question 1 Complete Mark 1.00 o	a benefit of using dynamic memory allocation? Flexibility at runtime No fragmentation Less memory usage Faster access time 11 put of 1.00 y compaction is used to solve: External fragmentation Page fault
Complete Mark 1.00 o What is a. b. c. d. Question 1 Complete Mark 1.00 o Memory a. b. c.	a benefit of using dynamic memory allocation? Flexibility at runtime No fragmentation Less memory usage Faster access time I1 out of 1.00 y compaction is used to solve: External fragmentation Page fault Internal fragmentation
Complete Mark 1.00 o What is a. b. c. d. Question 1 Complete Mark 1.00 o Memory a. b. c.	a benefit of using dynamic memory allocation? Flexibility at runtime No fragmentation Less memory usage Faster access time 11 put of 1.00 y compaction is used to solve: External fragmentation Page fault

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Question 12	
Complete	
Mark 1.00 out of 1.00	
What is the purpose of t	the `malloc()` function in C?
a. Allocate static n	nemory
b. Free memory	
c. Allocate memord. Allocate memor	
d. Allocate memor	Ty OH Stack
Question 13	
Complete	
Mark 1.00 out of 1.00	
What is a "dangling poin	nter"?
Time is a daily mig point	
a. A pointer to a n	null value
b. A pointer to a fr	freed memory location
c. A pointer to gar	rbage value
d. A pointer to the	e stack
Question 14	
Complete	
Complete Mark 1.00 out of 1.00	
Complete Mark 1.00 out of 1.00	best describes internal fragmentation?
Complete Mark 1.00 out of 1.00 Which of the following b	best describes internal fragmentation?
Complete Mark 1.00 out of 1.00 Which of the following books a. Memory leaks	
Complete Mark 1.00 out of 1.00 Which of the following b a. Memory leaks b. Unused memory	best describes internal fragmentation? ry outside allocated blocks
Complete Mark 1.00 out of 1.00 Which of the following b a. Memory leaks b. Unused memory c. Cache misses	ry outside allocated blocks
Complete Mark 1.00 out of 1.00 Which of the following b a. Memory leaks b. Unused memory c. Cache misses	
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Complete Mark 1.00 out of 1.00 Which of the following b a. Memory leaks b. Unused memory c. Cache misses d. Unused memory	ry outside allocated blocks
Complete Mark 1.00 out of 1.00 Which of the following b a. Memory leaks b. Unused memory c. Cache misses d. Unused memory	ry outside allocated blocks
Complete Mark 1.00 out of 1.00 Which of the following b a. Memory leaks b. Unused memory c. Cache misses d. Unused memory	ry outside allocated blocks
Complete Mark 1.00 out of 1.00 Which of the following be a. Memory leaks b. Unused memory c. Cache misses d. Unused memory Question 15 Complete Mark 1.00 out of 1.00	ry outside allocated blocks
Complete Mark 1.00 out of 1.00 Which of the following b a. Memory leaks b. Unused memory c. Cache misses d. Unused memory Mark 1.00 out of 1.00 Segmentation differs from	ry outside allocated blocks ry within allocated blocks om paging because segmentation:
Complete Mark 1.00 out of 1.00 Which of the following be a. Memory leaks b. Unused memory c. Cache misses d. Unused memory Question 15 Complete Mark 1.00 out of 1.00 Segmentation differs from a. Supports logica	ry outside allocated blocks ry within allocated blocks om paging because segmentation: al divisions like functions, arrays
Complete Mark 1.00 out of 1.00 Which of the following b a. Memory leaks b. Unused memory c. Cache misses d. Unused memory Mark 1.00 out of 1.00 Segmentation differs fro a. Supports logica b. Is managed by I	ry outside allocated blocks ry within allocated blocks om paging because segmentation: al divisions like functions, arrays
Complete Mark 1.00 out of 1.00 Which of the following b a. Memory leaks b. Unused memory c. Cache misses d. Unused memory Mark 1.00 out of 1.00 Segmentation differs fro a. Supports logica b. Is managed by b c. Uses TLB	ry outside allocated blocks ry within allocated blocks om paging because segmentation: al divisions like functions, arrays hardware
Complete Mark 1.00 out of 1.00 Which of the following b a. Memory leaks b. Unused memory c. Cache misses d. Unused memory Mark 1.00 out of 1.00 Segmentation differs fro a. Supports logica b. Is managed by I	ry outside allocated blocks ry within allocated blocks om paging because segmentation: al divisions like functions, arrays hardware

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Question 16
Complete Mark 1.00 out of 1.00
The heap memory is primarily used for:
a. Static variables
○ b. Temporary variables
c. Dynamic memory allocation
○ d. Code segment
Question 17
Complete
Mark 0.00 out of 1.00
What happens if you `free()` an already freed pointer in C?
a. Segmentation fault guaranteed
○ b. Memory leak
c. Undefined behavior (possible crash)
d. Nothing
Question 18
Complete
Mark 1.00 out of 1.00
Which memory is used for function call and local variable storage?
○ a. Heap
b. Stack
○ c. ROM
○ d. Cache
Question 19
Complete
Complete Mark 0.00 out of 1.00
Mark 0.00 out of 1.00
Mark 0.00 out of 1.00 The stack grows:
Mark 0.00 out of 1.00 The stack grows: a. Both b. Upward in memory c. Randomly
Mark 0.00 out of 1.00 The stack grows: a. Both b. Upward in memory

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Question 20
Complete
Mark 1.00 out of 1.00
Which data structure is used for memory page replacement algorithms?
a. Linked List
○ b. Stack
© c. Queue
○ d. Hash Table
Question 21
Complete
Mark 1.00 out of 1.00
What does the operating system use to translate virtual addresses to physical addresses?
a. Stack Pointer
b. Page Table
C. Program Counter
○ d. Memory Table
Question 22
Complete
Mark 1.00 out of 1.00
What happens when a program tries to access memory beyond its allocated space?
○ a. Memory Leak
○ b. Stack Overflow
c. Segmentation Fault
○ d. Deadlock
22
Question 23
Complete
Mark 1.00 out of 1.00
The OS swaps memory pages to disk to:
The OB swaps memory pages to disk to.
a. Increase cache size
b. Manage memory more efficiently
C. Free CPU registers
○ d. Improve network speed
○ d. Improve network speed

Question	24
Complete	
Mark 1.00 out of 1.00	
Garbage collection is used in languages like Java to:	
a.	Automatically free unused memory
O b.	Reuse variables
○ c.	Allocate memory faster
○ d.	Prevent memory leaks
Question 25	
Complete	
Mark 1.00 out of 1.00	
Which of the following is a sign of stack overflow?	
○ a.	High CPU usage
b.	Function recursion without base case
○ c.	Infinite loop
○ d.	Unfreed memory