Started on	Thursday, 12 June 2025, 2:51 PM
State	Finished
Completed on	Thursday, 12 June 2025, 2:58 PM
Time taken	6 mins 58 secs
Marks	20.00/25.00
Grade	<b>80.00</b> out of 100.00
Question 1	
Complete	
Mark 1.00 out of 1.00	
Which data structure	is used for memory page replacement algorithms?
Willen data structure	is used for memory page replacement algorithms:
a. Queue	
<ul><li>b. Linked List</li></ul>	
c. Hash Table	
d. Stack	
U. Stack	
Question 2	
Complete	
Mark 1.00 out of 1.00	
What kind of memor	y allocation is used for recursion?
a. Stack	
<ul><li>b. Swap space</li></ul>	
С. Неар	
Od. ROM	
Question 3	
Complete	
Mark 1.00 out of 1.00	
Which of the following	ng causes a memory leak?
Willest of the follows	ig causes a memory leak.
a. Page fault	
	nemory without freeing it
c. Stack overflo	
d. Double free	пу а рошен

Question 4 Complete				
Mark 1.00 ou	+ of 1.00			
IVIAIR 1.00 OC				
What is	a "dangling pointer"?			
<ul><li>a.</li></ul>	A pointer to garbage value			
<ul><li>b.</li></ul>	A pointer to a freed memory location			
○ c.	A pointer to a null value			
O d.	A pointer to the stack			
_				
Question 5				
Complete				
Mark 0.00 ou	it of 1.00			
What ha	ppens if you `free()` an already freed pointer in C?			
○ a.	Undefined behavior (possible crash)			
O b.	Nothing			
O c.	Memory leak			
<ul><li>d.</li></ul>	Segmentation fault guaranteed			
	Question 6			
Complete	. (100			
	rt of 1.00			
Complete	ut of 1.00			
Complete Mark 1.00 ou	swaps memory pages to disk to:			
Complete  Mark 1.00 ou  The OS s	swaps memory pages to disk to:			
Complete Mark 1.00 ou The OS s	swaps memory pages to disk to: Free CPU registers			
Complete Mark 1.00 ou The OS s	swaps memory pages to disk to:			
Complete Mark 1.00 ou  The OS s  a. b.	swaps memory pages to disk to: Free CPU registers			
The OS s  a. b. c.	swaps memory pages to disk to:  Free CPU registers Increase cache size			
The OS s  a. b. c.	swaps memory pages to disk to:  Free CPU registers Increase cache size Manage memory more efficiently			
The OS s  a. b. c. d.	swaps memory pages to disk to:  Free CPU registers Increase cache size Manage memory more efficiently			
The OS s  a. b. c. d.	swaps memory pages to disk to:  Free CPU registers Increase cache size Manage memory more efficiently			
Complete  Mark 1.00 ou  The OS s  a. b. c. d.  Question 7  Complete	swaps memory pages to disk to:  Free CPU registers Increase cache size Manage memory more efficiently Improve network speed			
The OS s  a. b. c. d.	swaps memory pages to disk to:  Free CPU registers Increase cache size Manage memory more efficiently Improve network speed			
Complete  Mark 1.00 ou  The OS s  a. b. c. d.  Question 7  Complete	swaps memory pages to disk to:  Free CPU registers Increase cache size Manage memory more efficiently Improve network speed			
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Complete Mark 1.00 ou  The OS s  a. b. c. d.  Question 7  Complete Mark 1.00 ou  The leass	swaps memory pages to disk to:  Free CPU registers Increase cache size Manage memory more efficiently Improve network speed  at of 1.00  t recently used (LRU) algorithm is a type of:  Memory allocation			
Complete Mark 1.00 ou  The OS s  a. b. c. d.  Question 7  Complete Mark 1.00 ou  The leas: b.	swaps memory pages to disk to:  Free CPU registers Increase cache size Manage memory more efficiently Improve network speed  at of 1.00  t recently used (LRU) algorithm is a type of:  Memory allocation Page replacement algorithm			
Complete Mark 1.00 ou  The OS s  a. b. c. d.  Question 7  Complete Mark 1.00 ou  The lease  a. b. c.	swaps memory pages to disk to:  Free CPU registers Increase cache size Manage memory more efficiently Improve network speed  at of 1.00  t recently used (LRU) algorithm is a type of:  Memory allocation			

Question 8			
Complete			
Mark 1.00 out of 1.00			
Which memory is used for function call and local variable storage?			
○ a. Heap			
○ b. Cache			
○ c. ROM			
Question 9			
Complete			
Mark 1.00 out of 1.00			
Garbage collection is used in languages like Java to:			
a. Allocate memory faster			
<ul><li>b. Automatically free unused memory</li></ul>			
○ c. Reuse variables			
○ d. Prevent memory leaks			
Question 10			
Complete			
Mark 0.00 out of 1.00			
What happens when a program tries to access memory beyond its allocated space?			
a. Memory Leak			
○ b. Segmentation Fault			
c. Stack Overflow			
O d. Deadlock			
Question 11			
Complete			
Mark 1.00 out of 1.00			
Which of the following is a sign of stack overflow?			
a. High CPU usage			
○ b. Unfreed memory			
<ul><li>c. Function recursion without base case</li></ul>			
○ d. Infinite loop			

Question 1				
Complete				
Mark 0.00 c	out of 1.00			
Which o	of the following helps avoid memory leaks in C++?			
<ul><li>a.</li></ul>	Global variables			
<ul><li>b.</li></ul>	Smart pointers			
C.	Void pointers			
O d.	Raw pointers			
Question 1	13			
Complete				
Mark 1.00 c	out of 1.00			
What is	a benefit of using dynamic memory allocation?			
○ a.				
<ul><li>b.</li></ul>	Flexibility at runtime			
O c.	Less memory usage			
<ul><li>d.</li></ul>	No fragmentation			
1				
Question 1	<b>.4</b>			
Complete	. (100			
Mark 1.00 c	nut of 1.00			
In virtua	al memory, what happens when a required page is not in memory?			
<ul><li>a.</li></ul>	Page Fault			
<ul><li>b.</li></ul>	Segmentation Fault			
○ c.	Stack Overflow			
O d.	TLB Miss			
Question 1	5			
Complete				
Mark 1.00 c	out of 1.00			
A TLB (	Translation Lookaside Buffer) improves:			
<ul><li>a.</li></ul>	Swapping performance			
<ul><li>b.</li></ul>				
© C.	Virtual to physical address translation			
<ul><li>d.</li></ul>				
o u.	Cache access title			

<u> </u>		
Question 16 Complete		
Mark 1.00 out of 1.00		
Which of the following is NOT a valid memory allocation function in C/C++?		
○ a. malloc		
○ b. calloc		
○ c. realloc		
□ d. alloc		
Question 17		
Complete		
Mark 0.00 out of 1.00		
The stack grows:		
a. Upward in memory		
○ b. Randomly		
C. Downward in memory		
O d. Both		
Question 18		
Complete		
Mark 1.00 out of 1.00		
What does the operating system use to translate virtual addresses to physical addresses?		
O a. Program Counter		
○ b. Stack Pointer		
O d. Memory Table		
Question 19		
Complete		
Mark 1.00 out of 1.00		
Copying garbage collectors work by:		
a. Deleting unused files		
b. Swapping memory blocks		
c. Freeing memory manually		
<ul><li>d. Copying reachable objects to a new memory area</li></ul>		

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Question 20		
Complete		
Mark 1.00 out of 1.00		
Segmentation differs from paging because segmentation:		
, , , ,		
a. Uses TLB		
○ b. Has fixed-size blocks		
c. Supports logical divisions like functions, arrays		
Od. Is managed by hardware		
•		
Question 21		
Complete		
Mark 1.00 out of 1.00		
The beautiful for the district of the second		
The heap memory is primarily used for:		
a. Dynamic memory allocation		
○ b. Code segment		
c. Static variables		
Od. Temporary variables		
Question 22		
Complete		
Mark 1.00 out of 1.00		
Which of the following best describes internal fragmentation?		
a. Unused memory outside allocated blocks		
<ul> <li>b. Unused memory within allocated blocks</li> </ul>		
c. Cache misses		
○ d. Memory leaks		
Question 23		
Complete		
Mark 1.00 out of 1.00		
Memory compaction is used to solve:		
a. Page fault		
<ul><li>b. Internal fragmentation</li></ul>		
○ c. Stack overflow		
d. External fragmentation		

12/25, 2:58 PM	Day71_OS_Quiz: Attempt review	
Question 24		
Complete		
Mark 1.00 out of 1.00		
What is the purpose of the `malloc()` function in C?		
a. Allocate static memory		
b. Allocate memory on heap		
○ c. Free memory		
d. Allocate memory on stack		
Question 25		
Complete		
Mark 0.00 out of 1.00		
Which memory management technique allows non-contiguous memory allocation?		
, , , , , , , , , , , , , , , , , , , ,		
a. Paging		

- b. Both A and B
- oc. Segmentation
- d. Stack Allocation