

Virtual Labs - Computer Science | Linked List | Classes | Virtual Labs - Computer Science | Stacks and Queues

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Stacks and Queues

Pre-Test
Stacks
Queues
Analysis
Post Test
Further Readings/References
Feedback

Stacks and Queues

Q1. Which among the following represents a stack?

(A) A queue of people waiting at a counter, where the action of popping is when someone has been served at the counter
(B) A hand of bangles where pushing is wearing a new bangle
(C) Sequence of actions performed by a printer ✓
(D) People going around a merry-go-round

Explanation

The actions performed by printer follows LIFO principle.

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Pre-Test
Stacks
Queues
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Post Test
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Q2. What is the time complexity of finding the minimum element of stack? What is the space complexity if the stack has to be restored to its original state - how it was before the operation?

(A) $O(1)$, $O(1)$
(B) $O(1)$, $O(n)$
(C) $O(n)$, $O(1)$
(D) $O(n)$, $O(n)$ ✓

Explanation

To find the minimum element of the stack, the whole stack need to be iterated and therefore the time complexity is $O(n)$.

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Stacks and Queues

Stacks and Queues

Pre-Test

Stacks

Queues

Analysis

Post Test

Further Readings/References

Feedback

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Q3. What is the advantage of using linked list implementation of stack over array implementation?

(A) Insertion or pushing into stack is faster in linked list implementation.

(B) Searching for an element is faster in linked list implementation.

(C) Linked list has variable size, unlike an array. ✓

(D) None of the above

Explanation

Memory allocation for linked list is dynamic but in array it is static.

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19:27 21-11-2020

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Stacks and Queues

Stacks and Queues

Pre-Test

Stacks

Queues

Analysis

Post Test

Further Readings/References

Feedback

Stacks and Queues

Correct

Q4. What is the outcome after the following steps, starting with an empty stack of size 5? push(3), push(5), pop(), push(10), push(11), push(100), push(9), push(10)

(A) Stack overflow error

(B) The top element is 3

(C) Stack underflow error ✓

(D) None of the above

Explanation

As we are performing 7 pushes and 1 pop on a stack of size 5, implies we are trying to push 6 elements into a stack of size 5 where size of stack is not sufficient to perform our operation.

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RESUME



Ms.Phadke Tejal

Present Address: -

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CAREER OBJECTIVE:

Highly motivated about modern technics in Web Development and seeking opportunity for fresher and learn more about Web Development.

EDUCATION QUALIFICATION:

NO.	Examination	Board/University	Year	Percentage
1.	Degree Computer engineering	Mumbai University	2019	persuring
2.	HSC	Maharashtra State Board	2018	67%
3.	SSC	Maharashtra State Board	2016	79.00%

WORKING EXPERIENCE:

- Fresher

STRENGTH & HOBBIES:

- Good listening skill.
- The ability to work in a team.
- Basic programming. (python)

PERSONAL DETAIL:

Name :Ms.Phadke Tejal Prakash

Date of Birth :07 Jan 2002

Contact No :8828929694

Nationality : Indian

Gender : Female

Marital Status : Unmarried

Languages Known : Marathi, Hindi, English

DECLARATION:

I hereby declare that the above-mentioned information is true as per my knowledge and belief. I bear the responsibility for the correction of the above mentioned particular.

Place:Panvel

Yours Faithfully

Date: 2/09/2021

Ms.Phadke Tejal Prakash

OFFICE REGISTER OF THE B.E.(with credits) - Regular - CBCS(Computer Engineering)- F.E. - Sem I [1T01831] HELD IN Winter Session 2019
(124) Mahatma Gandhi Missions College of Engineering and Technology, Kamothe

58651-Engineering Mathematics-I: ThUA 80/32 ThCA 20/8 100/0 | 58651 TW-Engineering Mathematics-I Term Work: TwCA 25/10 25/0 | 58652-Engineering Physics-I: ThUA 60/24 ThCA 15/6 75/0 |
FEL101-Engineering Physics-I (TW): TwCA 25/10 25/0 | 58655-Engineering Chemistry-I: ThUA 60/24 ThCA 15/6 75/0 | FEL102-Engineering Chemistry-I (TW): TwCA 25/10 25/0 |
58653-Engineering Mechanics: ThUA 80/32 ThCA 20/8 100/0 | FEL103-Engineering Mechanics (TW/ORL): OICA 25/10 TwCA 25/10 50/0 | 58654-Basic Electrical Engineering: ThUA 80/32 ThCA 20/8 100/0 |
FEL104-Basic Electrical Engineering (TW/ORL): OICA 25/10 TwCA 25/10 50/0 | FEL105-Basic Workshop Practice-I: TwCA 50/20 50/0 |

SEAT NO.	NAME OF THE CANDIDATE	PAPER 1	PAPER 2	PAPER 3	PAPER 4	PAPER 5	PAPER 6	RESULT
Mother Name		Total	Total	Total	Total	Total	Total	CR C*G
PRN.		CR GR GP C*G	CR GR GP C*G	CR GR GP C*G	CR GR GP C*G	CR GR GP C*G	CR GR GP C*G	SGPA GRADE
CENTRE-COLLEGE		PAPER 7	PAPER 8	PAPER 9	PAPER 10	PAPER 11		
		Total	Total	Total	Total	Total		
		CR GR GP C*G	CR GR GP C*G	CR GR GP C*G	CR GR GP C*G	CR GR GP C*G		

4033103 PAWAR ANIKET ADHIKRAO SARITA	58651	58651 TW	58652	FEL101	58655	FEL102	Unsuccessful RPV
	11N 9E 20 15E 15 14N 12E 26 20E 20 33E 9E 42 12E 12 18.00 77.50						
2019016402189373	3.00 F 0.00 0.00 1.00 C 7.00 7.00 2.00 F 0.00 0.00 0.50 O 10.00 5.00 2.00 D 6.00 12.00 0.50 E 5.00 2.50 4.31 --						
(12)Panvel-(124)	58653	FEL103	58654	FEL104	FEL105		
	32E 11E 43 13E 35 34E 11E 45 19E 36 36E 36						
	12E 22E 17E						
	3.00 P 4.00 12.00 1.00 B 8.00 8.00 3.00 E 5.00 15.00 1.00 B 8.00 8.00 1.00 B 8.00 8.00						
	Total Credit 18.00 FINAL CGPA 4.31 FINAL GRADE --						

4033104 / PHADKE TEJAL PRAKASH MANISHA	58651	58651 TW	58652	FEL101	58655	FEL102	Successful RPV
	36 14 50 20 20 24 15 39 23 23 33 12 45 22 22 18.00 136.00						
2019016402189415	3.00 D 6.00 18.00 1.00 O 10.00 10.00 2.00 D 6.00 12.00 0.50 O 10.00 5.00 2.00 C 7.00 14.00 0.50 O 10.00 5.00 7.56 --						
(12)Panvel-(124)	58653	FEL103	58654	FEL104	FEL105		
	59 14 73 22 41 39 20 59 20 40 42 42						
	19 19 20						
	3.00 B 8.00 24.00 1.00 O 10.00 10.00 3.00 D 6.00 18.00 1.00 O 10.00 10.00 1.00 O 10.00 10.00						
	Total Credit 18.00 FINAL CGPA 7.56 FINAL GRADE --						

4033105 / PRAJAKTA SUNIL ASOLE SAVITA	58651	58651 TW	58652	FEL101	58655	FEL102	Unsuccessful RPV
	41E 15E 56 19E 19 17N 11E 28 19E 19 37E 11E 48 19E 19 18.00 111.00						
2019016402189616	3.00 D 6.00 18.00 1.00 A 9.00 9.00 2.00 F 0.00 0.00 0.50 A 9.00 4.50 2.00 C 7.00 14.00 0.50 A 9.00 4.50 6.17 --						
(12)Panvel-(124)	58653	FEL103	58654	FEL104	FEL105		
	40E 18E 58 21E 42 37E 18E 55 20E 36 32E 32						
	12E 21E 16E						
	3.00 D 6.00 18.00 1.00 O 10.00 10.00 3.00 D 6.00 18.00 1.00 B 8.00 8.00 1.00 C 7.00 7.00						
	Total Credit 18.00 FINAL CGPA 6.17 FINAL GRADE --						

/ - FEMALE, # - 0.229A,@ - 0.5042A/O.5043A/O.5044A,* - 5045A, RR-RESERVED, ---Fails in Theory or Practical, RPV - PROVISIONAL Eligible, RCC - O.5050, AB - ABSENT, F - UNSUCCESSFUL,P - SUCCESSFUL;
NULL=NULL & VOID, G:Grade C*G:Gradepoints C:credits CP:credit points aCG:sum of product of credits & grades, Internal Marks are Provisional as per R.8668
aC:sum of credit points GPA: aCG/aC
MARKS : 0 to 39.99 40 to 44.99 45 to 49.99 50 to 59.99 60 to 69.99 70 to 74.99 75 to 79.99 80 to 100
GRADE : F P E D C B A O
GRADE POINT : 0.00 4.00 5.00 6.00 7.00 8.00 9.00 10.00

