Opened: Wednesday, 11 October 2023, 12:00 AM **Due:** Wednesday, 18 October 2023, 12:00 AM

Queuebased Activities

Problem 1: Implement a

Stack using two

queues q1 and q2.

Example 1:

Input:

push(2)

push(3)

pop()

push(4)

pop()

Output: 3 4

Explanation:

push(2),the stack will

be {2}. push(3), the

stack will be {2 3}.

pop(), poped element

will be 3 the stack will

be {2}

push(4), the stack will

be {2 4}. pop(), poped

element will be 4

Example 2:

Input:

push(2)

pop()

pop()

push(3)

Output: 2 -1

Your Task:

Since this is a

function problem,

you don't need to

take inputs. You are

required to complete

the two

methods push() which

takes an integer 'x' as

input denoting the

element to be pushed

into the stack

and pop() which

returns

the integer poped out

from the stack(-1 if

the stack is empty).

?

```
Expected Time
          Complexity: O(1)
          for push() and O(N)
          for pop()
          Constraints: 1
          <= Number of
          queries <= 100, 1 <=
          values of the
          stack <= 100
          Design a case-based
          selection menu to
Problem
          create procedures for
2:
          the following
          operations.:
          CASE 1. Insertion in a
          Queue using Array
          implementation\\
          CAES 2. Deletion in a
          Queue using Array
          implementation
          CASE 3. Insertion in a
          Circular Queue
          CASE4. Deletion in a
          Circular Queue
          Implement modular
          approach to create
Problem linear queue
3:
          operations. The
          skeleton code is
          below:
          struct node
          {
             int info;
             struct node *ptr;
          };
          int frontelement();
          void enqueue(int
          data);
          void dequeue();
          void empty();
          void display();
          void create();
          void queuesize();
          void main()
          {
             printf("\n 1 -
          Enque");
            printf("\n 2 -
          Deque");
             printf("\n 3 - Front
          element");
             printf("\n 4 -
          Empty");
             printf("\n 5 - Exit");
             printf("\n 6 -
          Display");
             printf("\n 7 -
          Queue size");
          }
```

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Submission status

Submission status	Submitted for grading
Grading status	Not graded
Time remaining	Assignment was submitted 4 days 2 hours early
Last modified	Friday, 13 October 2023, 9:47 PM
File submissions	P1.c 13 October 2023, 9:47 PM P2.c 13 October 2023, 8:45 PM P3.c 13 October 2023, 2:18 PM
Submission comments	► Comments (0)