IDESQ01

- Which statement below is wrong concerning to stack data structure?

Select one:

- It is a First In First Out (FIFO) list.
- A stack contains a sequence of zero or more items of the same type.
- push() and pop() are two operations defined in Stack's ADT.
- List-based stack has no limit on total number of items of the stack.

IDESQ02

– Which statement below is wrong about queue data structure?

Select one:

- Dequeue is a special type of queue.
- It is a First In First Out (FIFO) list.
- Queue can be implemented using an array or a linked-list.
- enqueue() and dequeue() operations must be performmed at one end of the queue.

IDESQ04

– Which statement is correct about array-based stack?

Select one:

- To add a new item into the stack: firstly, top is increased by 1, then current items will be shifted one slot to the right to make space for the new item.
- To add a new item into the stack: firstly, top is increased by 1, then current items will be shifted one slot to the left to make space for the new item.
- top is the first item of the array.
- top is the last item of the array.

IDESQ06

– In the ADT of the Queue data structure, dequeue() method will?

Select one:

- Remove an item from the queue at the rear position.
- Add a new item to the queue at the front position.
- Add a new item to the queue at the rear position.
- Remove an item from the queue at the front position.

IDESQ07

– In ADT of the Queue data structure, enqueue() method will?

Select one:

- Add a new item to the queue at the front position.
- Remove an item from the queue at the front position.
- Remove an item from the queue at the rear position.
- Add a new item to the queue at the rear position.

IDESQ09

– Complete the code for the enqueue() method in array-based circular queue?

Select one:

- rear=rear+1
- rear=(rear+1)%maxSize
- front=front+1
- front=(front+1)%maxSize

IDESQ08

– Which statement is wrong about array-based circular queue?

Select one:

- when front=rear the queue is empty.
- rear can be wrap around to the beginning of the array.
- front can be wrap around to the beginning of the array.
- when front=rear the queue is full.

IDESQ10

– Complete the code for the dequeue() method in array-based circular queue?

```
public void dequeue()
{
  if (!isEmpty())
  {
       int pos=front;
       _______;
       return items[pos]
   }
}
```

Select one:

- front=front+1
- rear=rear+1
- front=(front+1)%maxSize
- rear=(rear+1)%maxSize

IDESQ11

– Which statement is wrong about list-based queue?

Select one:

- front is the head and rear is the tail of the linked-list.
- A linked-list is used to implement the queue.
- Queue is empty when front=rear.
- List-based queue ADT does not have isFull() operation

IDESQ13

– Suppose you push 10, 20, 30, 40 onto a stack, then you pop three items. Which one is left on the stack?

Select one:

- 40
- 30
- 10
- 20

IDESQ15

– The end which a new element gets added to a queue is called

Select one:

- Bottom
- Top
- Rear
- Front

IDESQ16

– What is the result of the following operation on the stack S: S.peek(S.push(X))?

Select one:

- X.
- S.push(X).
- Null.
- S.top.