

Qn1

- A ring buffer allows enqueues and dequeues (or insertion and deletion) to be done in constant time ($O(1)$). It also reduces memory consumption. It should be used when we have limited memory resources, or when we want to achieve better time complexity with arrays.

Qn2

- Stacks should be used when we want the items to be in a specific LIFO order. An example of implementing a stack is the "undo" or "go back" functionality that we often use in a word-processing application or a web browser. The last action/website is stored at the top of the stack to be retrieved first.