

# 43 Lecture - CS302

## Important Mcqs

1. Which of the following memory organization operates on the principle of last-in, first-out?

- a) Random Access Memory (RAM)
- b) Read-Only Memory (ROM)
- c) Last In-First Out (LIFO) Memory
- d) First In-First Out (FIFO) Memory

Answer: c) Last In-First Out (LIFO) Memory

What is the other name for LIFO memory?

- a) Stack
- b) Queue
- c) Circular buffer
- d) Hash table

Answer: a) Stack

Which of the following is true about LIFO memory?

- a) The first item added to the stack is the first item to be removed from the stack
- b) The last item added to the stack is the first item to be removed from the stack
- c) Items can be added or removed from the stack in any order
- d) The stack has a fixed size and cannot be expanded or shrunk

Answer: b) The last item added to the stack is the first item to be removed from the stack

Which of the following is not a typical use of LIFO memory?

- a) Programming languages
- b) Operating systems
- c) Digital signal processing
- d) Graphics processing

Answer: d) Graphics processing

Which of the following is an advantage of LIFO memory?

- a) It has a flexible size
- b) It allows for random access to memory locations
- c) It is simple and efficient
- d) It has a high capacity for data storage

Answer: c) It is simple and efficient

Which of the following operations are performed on a LIFO memory?

- a) Add
- b) Retrieve
- c) Both Add and Retrieve
- d) None of the above

Answer: c) Both Add and Retrieve

Which of the following data structures is an example of LIFO memory?

- a) Binary Tree

- b) Graph
- c) Stack
- d) Linked List

**Answer: c) Stack**

**Which of the following is a disadvantage of LIFO memory?**

- a) It is complex and difficult to use
- b) It has a low capacity for data storage
- c) It is not suitable for situations where the order of data retrieval is important
- d) It has a limited size

**Answer: c) It is not suitable for situations where the order of data retrieval is important**

**Which of the following is an example of LIFO memory in hardware?**

- a) CPU register stack
- b) Hard disk drive
- c) USB drive
- d) CD-ROM drive

**Answer: a) CPU register stack**

**Which of the following is an application that uses LIFO memory?**

- a) Image processing
- b) Speech recognition
- c) Text editing
- d) Web browsing

**Answer: c) Text editing**