

## Technical Quiz

### Questions & Answers

#### Q. What is transparent DBMS?

It is one, which keeps its Physical Structure hidden from user.

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#### Q. Which algorithm is used to solve the eight Queens problem?

Backtracking.

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#### Q. What is a MUTEX?

Short for mutual exclusion object. A mutex is a program object that allows multiple program threads to share the same resource, such as file access, but not simultaneously. When a program is started, a mutex is created with a unique name. After this stage, any thread that needs the resource must lock the mutex from other threads while it is using the resource. The mutex is set to unlock when the data is no longer needed or the routine is finished. A mutex can be unlocked only by the thread that locked it. Thus a mutex has an owner concept.

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#### Q. What is the amoeba w.r.t Operating Systems?

Amoeba is a distributed operating system. It collects a huge variety of single machines connected over a (fast) network to one, huge computer. It was originally developed at the Vrije Universities in Amsterdam by Andrew Tanenbaum and many more. Amoeba was always designed to be used, so it was deemed essential to achieve extremely high performance. Currently, it's the fastest distributed operating system. The original Amoeba sources are handled under a public license.

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#### Q. What is the RAD SDLC Model?

Rapid application development (RAD) is a software development methodology that uses minimal planning in favour of rapid prototyping. The "planning" of software developed using RAD is interleaved with writing the software itself. The lack of extensive pre-planning generally allows software to be written much faster, and makes it easier to change requirements.

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#### Q. What is thrashing concept in OS?

It is a phenomenon in virtual memory schemes when the processor spends most of its time swapping pages, rather than executing instructions. This is due to an inordinate number of page faults.

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