

Embedded C interview questions and answers related to memory management



How would you implement a stack data structure in a memory-constrained embedded system?

A strong candidate should explain that implementing a stack in a memory-constrained system requires careful consideration of the available resources. They might describe the following approach:



- Allocate a fixed-size array to serve as the stack
- Use a stack pointer to keep track of the top element
- Implement push and pop operations that check for stack overflow and underflow
- Consider using a circular buffer implementation for more efficient memory usage

Look for candidates who emphasize the importance of error handling and boundary checks. They should also be able to discuss trade-offs between stack size and other memory needs in the system.

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H Kauffman



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