

Friday questions week 7

1. When optimizing a program, what is the purpose of first developing a simpler, not optimized, and obviously correct **reference implementation**?

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2. What is SIMD-vectorization?

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3. How can you determine efficiently if a number $x \geq 1$ is a power of 2?

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4. Which advantages and disadvantages have a free-list compared to using `malloc` and `free` for each allocation?

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5. Which advantages and disadvantages have an arena compared to using `malloc` and `free` for each allocation?

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