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Random ...The Client Requires  $O(N+n^2)$  CNOT Gates  
Plus  $O(n)$  Quantum Gates. Assuming Conjecture 1,  
The Number Of CNOT Gates Is  $O(N)$ . If The Client Runs  
The Factoring Algorithm By Itself, The Quantum  
Operations It Needed Will Be  $O(n^2)$ , And Th 2th,

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Sunday, Or A Legal Holiday In The Dis- ... Where A  
Motion Is Made Con-cerning Jurisdiction Or The  
Sufficiency Of A Pleading, The Time For Filing A  
Response To That Pleading Shall Begin To Run From  
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$10 \ 1 \ 11 \ 0$  (1.34) NAND  $A \text{ NAND } B = 00 \ 1 \ 01 \ 1 \ 10 \ 1 \ 11 \ 0$  (1.35) NOR  $A \text{ NOR } B = 00 \ 1 \ 01 \ 0 \ 10 \ 0 \ 11 \ 0$  (1.36) XNOR  $A \oplus B = 00 \ 1 \ 01 \ 0 \ 10 \ 0 \ 11 \ 1$  (1.37) It Can Be Shown By Direct Construction That NAND And NOR Gates Are Universal (i.e. Arbitrary Gate Can Be Constructed Out Of Only NAND Gates ... 1th, 2024Elementary Gates For Quantum ComputationIn Quantum Computation, The State Of The Computer Is Described By A State Vector  $|\psi\rangle$ , Which Is A Complex Linear Superposition Of All Binary States Of The Bits  $\{0,1\}$ : Historically, The Idea That The Quantum Mechanics Of Isolated Systems Should Be Studied As A New Formal System For Computation Arose From The Recognition 20 Years Ago That ... 9th, 2024.

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Quantum Computation of Fluid Dynamics Quantum Particle System is termed a Quantum Lattice Gas and the associated quantum computer network is called a Lattice-gas Quantum Computer. Over a decade ago, classical lattice gases were found that behave like a viscous Navier-Stokes fluid at the macroscopic scale [1, 2]. In this paper we show that a quantum lattice gas does too. 1th, 2024

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