

1. A measure for the complexity of an algorithm at large value of N
2. $O(100)$
3. $O(n^2 + 100)$
4. Classical algorithm complexity: $O(n^2)$, Quantum algorithm complexity: $O(2n+1000)$
5. Shor's algorithm
6. X gate and CNot gate
7. Deutsch - Nosza algorithm

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