180592 = Module 1

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- Q1. What is an algorithm? What are the properties of an algorithm? Explain with an example.
- Q2. Explain asymptotic netations with examples.
- a recursive / non-recursive alyon them.
 - Qu. If $t_1(n) \in O(g_n)$ and $t_2(n) \in O(g_1(n))$ prove that $t_1(n) + t_2(n) \in O(\max 4g_1(n), g_2(n))$.
 - Q5. Write an algorithm to find maximum element-in an avonay of n element.
 - Ce6. Design an algorithm for theiring whether all denote in a given avoid one diphret or not. Denie its upnet complexity.
 - Q7. Silvestrate morthemetical analysis of recursors code for, tower of homo!