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| **1. Boolean Algebra**  Simplify the following Boolean expression: | **1.** |
| **2. Boolean Algebra**  Which ordered triple(s) make the following Boolean expression FALSE? | **2.** |
| **3. Data Structures**  List the nodes at depth 6 of the binary search tree of the following string?  BARRINGTONHIGHSCHOOL | **3.** |
| **4. Data Structures**  Given an initially empty stack, what is the next item to be popped  after the following operations have been performed?  PUSH(F), PUSH(O), PUSH(R), POP(X), PUSH(T), PUSH(I), POP(X),  PUSH(E), PUSH(T), POP(X), PUSH(H), PUSH(A), PUSH(N),  POP(X), PUSH(N), POP(X), POP(X), PUSH(I), PUSH(V),  PUSH(E), PUSH(R), POP(X), POP(X), PUSH(S),  POP(X), POP(X), PUSH(A), PUSH(R), PUSH(Y), POP(X), POP(X),  POP(X), POP(X), POP(X) | **4.** |
| **5. Regular Expressions**  Given the following regular expression: 1\*01(01)\*1100\*  which of the following strings match the pattern?  A. 0010100  B. 101011100  C. 01010101100  D. 1010110  E. 01110 | **5.** |