1) For each of the following grammars, identify the highest level that it belongs to (0-3), and explain your answer.

    a) S → a | TR | T, T → bb | Ta, R → baab

    b) S → aTb | bTa, aTb → aSSb, bTa → ba

    c) S → Ra | Qb | Ta, R → Qa | Rb, T → ε, Q → a | Rb | Tb

    d) S → ε

    e) S → aTbR, T → TT | ba, abab → abbaab, R → aR | ε

2) For each of the grammars in question 1, list three strings that can be derived from the grammar (and are therefore in the grammar's language) and also list three strings that cannot be derived from the grammar (and are not in the grammar's language). Some of the grammars may not have 3 of each kind.