DDMIN Homework

Problem 1: Find the answer DDMIN would obtain for the test function F( ) defined as follows on subsets of S = {0, 1, 2, 3, 4, 5, 6, 7} F(S) = 1, F({0,1,2,3,4,5,6}) = 1, F({0,1,2,3}) = 1, F({1,2}) = 1 F(T) = 0 on all other subsets of S. F(x) = 1 means the input x produces the bug. Show your work.

Problem 2: S = {0, 1, 2, 3, 4, 5, 6, 7} and F(S) =1. T is a subset with *three* element and F(X) = 1 for all supersets of T including T itself. F(Y) = 0 for all other subsets. What are choices for T for which DDMIN will produce it as the answer? How many are the choices for T for which DDMIN will produce it as the answer?

Problem 3: S = {0, 1, 2, 3, 4, 5, 6, 7} and F(S) =1. T is a subset with *two* element and F(X) = 1 for all supersets of T including T itself. F(Y) = 0 for all other subsets. What are choices for T for which DDMIN will produce it as the answer? How many are the choices for T for which DDMIN will produce it as the answer?

Problem 4: S = {0, 1, 2, 3, 4, 5, 6, 7} and F(S) =1. T is a subset with *one* element and F(X) = 1 for all supersets of T including T itself. F(Y) = 0 for all other subsets. What are choices for T for which DDMIN will produce it as the answer? How many are the choices for T for which DDMIN will produce it as the answer?