# The Theory of Computation

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*Solution Manual*

*Chapter 7, Problem 7.47*

This is a very hard problem; as with most of the double-starred problems in this text, the intent is not to assign these problems for the students to solve, but perhaps to assign them as reading material. The pertinent reference here is the 1984 paper of C.H. Papadimitriou and M. Yannakakis entitled "The complexity of facets and some facets of complexity," which appeared in final form in *J. Comput. Syst. Sci.* **28** (1988), pp. 244–259.