







## MECHANICS OF SHOWING A PROBLEM IS IN NP How to show ∏ ∈ NP 1. Define a yes-certificate 2. Design a poly-time verify(I, C) algorithm 3. Correctness proof Case 1: Let I be any yes-instance; Find C such that verify(I, C) = true Case 2: Let I be any no-instance, and C be any certificate; Prove verify(I, C) = false



































































