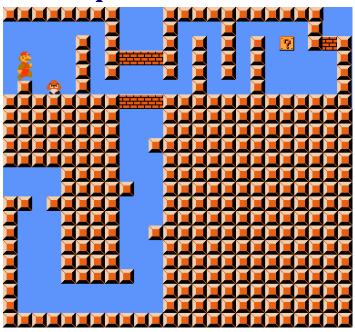
ALGORITHMIC LOWER BOUNDS: FUN WITH HARDNESS PROOFS

Super Mario Bros.

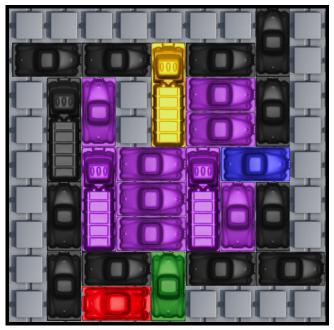


Crossover gadget for NP-hardness



OR gadget for NP-hardness

Rush Hour



AND gadget for PSPACE-hardness

Hardness Made Easy*

Learn when to give up the search for efficient algorithms; see connections between computational problems; solve puzzles to prove theorems, solve open problems, and write papers.

Topics: NP, PSPACE, EXPTIME, EXPSPACE, 3SUM, approximation, fixed parameter, games & puzzles, key problems, gadgets, and proof styles.



6.892 taught by Professor Erik Demaine

II, AAGS, and Theoretical CS Concentration Wednesday 7:00-9:30pm in room 32-082

http://courses.csail.mit.edu/6.892/spring19/ sign up for our mailing list to join the class

Spring 2019

* Easiness not guaranteed. Side effects such as open problems and a heightened sense of complexity may occur. Ask your advisor if 6.892 is right for you!

Minesweeper