

LinearProgrammingCrossword

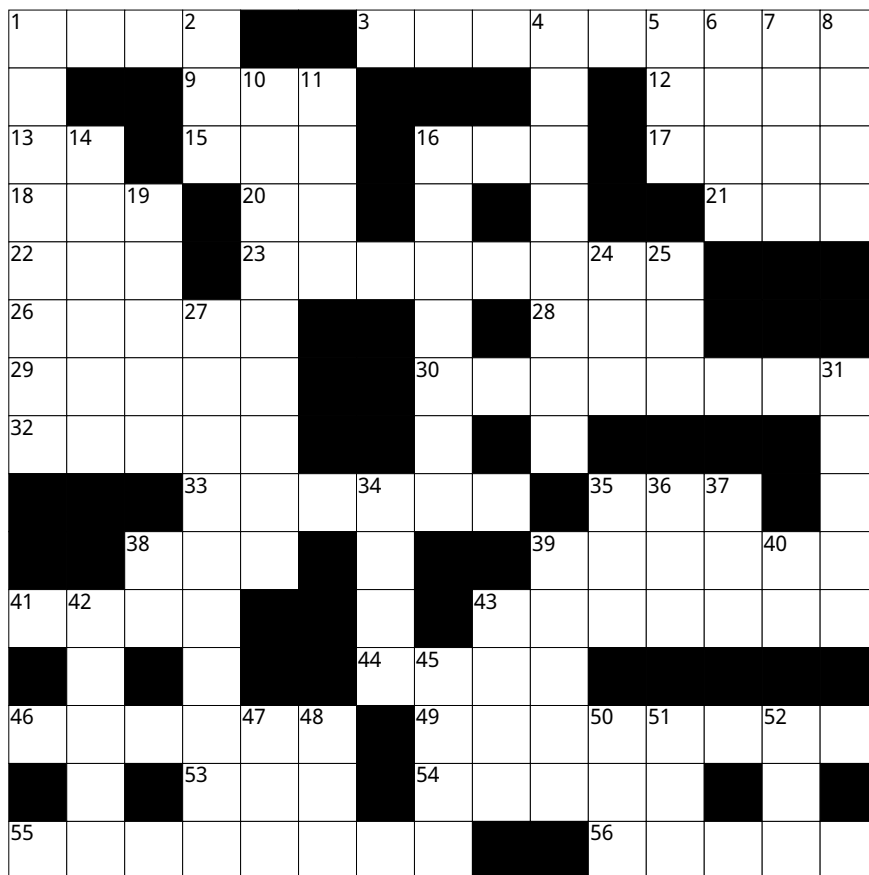
ACROSS

- 1 Duality of LP with \leq
- 3 Name of cubes for which simplex method is exponential
- 9 "Yikes!"
- 12 Bargain hunter's delight
- 13 Finding a feasible solution to a LP is _____ hard as finding an optimal one.
- 15 Boxer Muhammad
- 16 Sigma follower
- 17 Ye _____ Shoppe
- 18 When repeated, a dance move from the 2010s
- 20 Southern California city, Abbr.
- 21 Gallery display
- 22 Abbr. for an instructor who is also an M.S./Ph.D. student
- 23 Full name of Twilight protagonist
- 26 Illuminated
- 28 Square root of IX
- 29 Actor Chris
- 30 One of your M.S./Ph.D. committee members
- 32 Sine or cosine, e.g.
- 33 Same as Max Flow
- 35 _____ Paulo
- 38 $5 \text{ _____ } 3 = 2$
- 39 Location of Pepperdine Univ.

- 41 Integer linear programming is NP-_____
- 43 _____ Method: exponential in worst-case but faster in practice
- 44 Treats with a cold pack
- 46 Takes part in a bee
- 49 Travel more than 26.2mi on foot
- 53 In the past
- 54 _____ feasible solution
- 55 Calc 3 multipliers that capture duality of LP
- 56 Namesake of pivot rule that prevents cycling

DOWN

- 1 Jeep Model
- 2 Hawaii's Mauna _____
- 4 Achieved by strong duality, unlike 1 Across.
- 5 A morphism that is both mono and epi (in an abelian cat)
- 6 "The Lion King" lioness
- 7 Abbr. before a lengthy post's summary
- 8 Slangy expression of approval
- 10 _____ Method: proven to run in polynomial time but slow in practice
- 11 Souls and Sorentos, e.g.
- 14 Cannabis _____ (Marijuana)
- 16 Simplex _____
- 19 Really bother
- 24 Group that is also a smooth manifold with differentiable group operations
- 25 Broadcast
- 27 The relaxed LP problem solves the integer LP problem when A is totally _____
- 31 Open-source operating system
- 34 Tatum's roommate, the philosopher
- 35 Friend of Frodo
- 36 Swiss peak
- 37 Black gold
- 38 _____. Clean
- 39 Fine sprays



- 40 "To _____ or not to _____"
- 42 First Greek letter
- 43 Actress Ward
- 45 Dual to cross-polyope
- 47 JFK alternative
- 48 Luke, to Anakin
- 50 Eve's start
- 51 Knee part, for short
- 52 If you're in a probability class, this might hold blue and red balls