

Part 10 writeup

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No known bugs!

The SearchByLyricsPhrase class efficiently searches for songs by matching a given lyrics phrase. It uses a list of lists to track the positions of each word in the phrase within the song's lyrics, ensuring words are matched in order. The search method extracts words from the phrase using regular expressions and ranks matches based on the distance between the first and last words in the lyrics. Matches are stored as RankedSong objects, sorted by rank in descending order, and returned as an array of songs. This approach ensures accurate and fast results using simple yet effective data structures.

Search Results:

"She loves you":

Total songs = 58, first 10 matches

rank artist title

13 Aerosmith "Beyond Beautiful"

13 Beatles, The "She Loves You"

13 Beatles, The "That Means A Lot"

13 Billy Joel "Modern Woman"

13 Blondie "Little Girl Lies"

13 Elvis Presley "Take Good Care of Her"

13 Elvis Presley "The Meanest Girl in Town"

13 Fleetwood Mac "Silver Springs"

18 Bonnie Raitt "Any Day Woman"

21 Pink Floyd "Apples And Oranges"

23 Elvis Presley "What's She Really Like"

“Love love love”:

Total songs = 1760, first 10 matches

rank artist title

- 9 Aerosmith "Critical Mass"
- 9 Aretha Franklin "I'm in Love"
- 9 Beatles, The "Ooh! My Soul"
- 9 Beatles, The "To Know Her Is To Love Her"
- 9 David Bowie "Under Pressure"
- 9 Jimi Hendrix "Earth Blues"
- 9 John Lennon "To Know Her Is To Love Her"
- 9 Queen "Under Pressure"
- 9 Who, The "Our Love Was"
- 10 Alabama "Love Remains"
- 10 Beatles, The "All You Need Is Love"

“School’s out”

Total songs = 45, first 10 matches

rank artist title

- 80 Bruce Springsteen "Rosalita (Come Out Tonight)"
- 87 Doors, The "Gloria"
- 119 Bob Dylan "Like A Rolling Stone"
- 122 Cat Stevens "School Is Out"
- 143 Steppenwolf "Hard Rock Road"
- 148 Blondie "Kidnapper"
- 214 Ramones "Rock 'N' Roll High School"
- 223 Kinks, The "Working At The Factory"
- 225 Ramones "In The Park"
- 240 Bonnie Raitt "Hell To Pay"
- 244 Alabama "Reckless"