

## A EXAMPLE RESULTS

The **red**, **blue**, black and **green** indicate task description, demonstration example, new Input query to LLMs and answer returned by LLMs, respectively. Moreover, the **bold** indicates the ground truth and '' indicates the position of ground truth in answer. The full result can be viewed at here.

### A.1 text-davinci-002 with pointwise

#### A.1.1 *Movie*.

- **You are a movie recommender system now.**

Input: Here is the watching history of a user: Gattaca, Armageddon, Big, Babes in Toyland, Gladiator. Based on this history, please predict the user's rating for the following item: Star Wars: Episode I - The Phantom Menace (1 being lowest and 5 being highest)

Output: 1.

Input: Here is the watching history of a user: The Virgin Suicides, Goya in Bordeaux, Snow Falling on Cedars, Gladiator, Hamlet. Based on this history, please predict the user's rating for the following item: The Last September (1 being lowest and 5 being highest)

Output: 5.

Input: Here is the watching history of a user: The Green Mile, Sling Blade, A River Runs Through It, Donnie Brasco, Sleepers. Based on this history, please predict the user's rating for the following item: American Beauty (1 being lowest and 5 being highest)

Output: **5**.

- **You are a movie recommender system now.**

Input: Here is the watching history of a user: Gattaca, Armageddon, Big, Babes in Toyland, Gladiator. Based on this history, please predict the user's rating for the following item: Star Wars: Episode I - The Phantom Menace (1 being lowest and 5 being highest)

Output: 1.

Input: Here is the watching history of a user: The Virgin Suicides, Goya in Bordeaux, Snow Falling on Cedars, Gladiator, Hamlet. Based on this history, please predict the user's rating for the following item: The Last September (1 being lowest and 5 being highest)

Output: 5.

Input: Here is the watching history of a user: The Man with the Golden Gun, Jaws, A Close Shave, When Harry Met Sally..., Awakenings. Based on this history, please predict the user's rating for the following item: Shine (1 being lowest and 5 being highest)

Output: **5**.

- **You are a movie recommender system now.**

Input: Here is the watching history of a user: Gattaca, Armageddon, Big, Babes in Toyland, Gladiator. Based on this history, please predict the user's rating for the following item: Star Wars: Episode I - The Phantom Menace (1 being lowest and 5 being highest)

Output: 1.

Input: Here is the watching history of a user: The Virgin Suicides, Goya in Bordeaux, Snow Falling on Cedars, Gladiator, Hamlet. Based on this history, please predict the user's rating for the following item: The Last

September (1 being lowest and 5 being highest)

Output: 5.

Input: Here is the watching history of a user: The Virgin Suicides, Mission to Mars, Requiem for a Dream, Hamlet, Space Cowboys. Based on this history, please predict the user's rating for the following item: Almost Famous (1 being lowest and 5 being highest)

Output: 4.

- You are a movie recommender system now.

Input: Here is the watching history of a user: Gattaca, Armageddon, Big, Babes in Toyland, Gladiator. Based on this history, please predict the user's rating for the following item: Star Wars: Episode I - The Phantom Menace (1 being lowest and 5 being highest)

Output: 1.

Input: Here is the watching history of a user: The Virgin Suicides, Goya in Bordeaux, Snow Falling on Cedars, Gladiator, Hamlet. Based on this history, please predict the user's rating for the following item: The Last September (1 being lowest and 5 being highest)

Output: 5.

Input: Here is the watching history of a user: The Player, Spanking the Monkey, The Grifters, The Truman Show, Rosemary's Baby. Based on this history, please predict the user's rating for the following item: Disturbing Behavior (1 being lowest and 5 being highest)

Output: 3.

- You are a movie recommender system now.

Input: Here is the watching history of a user: Gattaca, Armageddon, Big, Babes in Toyland, Gladiator. Based on this history, please predict the user's rating for the following item: Star Wars: Episode I - The Phantom Menace (1 being lowest and 5 being highest)

Output: 1.

Input: Here is the watching history of a user: The Virgin Suicides, Goya in Bordeaux, Snow Falling on Cedars, Gladiator, Hamlet. Based on this history, please predict the user's rating for the following item: The Last September (1 being lowest and 5 being highest)

Output: 5.

Input: Here is the watching history of a user: Star Wars: Episode V - The Empire Strikes Back, The Last Emperor, Platoon, Glory, Full Metal Jacket. Based on this history, please predict the user's rating for the following item: Missing in Action 2: The Beginning (1 being lowest and 5 being highest)

Output: 1.

- You are a movie recommender system now.

Input: Here is the watching history of a user: Gattaca, Armageddon, Big, Babes in Toyland, Gladiator. Based on this history, please predict the user's rating for the following item: Star Wars: Episode I - The Phantom Menace (1 being lowest and 5 being highest)

Output: 1.

Input: Here is the watching history of a user: The Virgin Suicides, Goya in Bordeaux, Snow Falling on Cedars, Gladiator, Hamlet. Based on this history, please predict the user's rating for the following item: The Last September (1 being lowest and 5 being highest)

Output: 5.

Input: Here is the watching history of a user: Stir of Echoes, Starship Troopers, Arthur, Austin Powers: The Spy Who Shagged Me, Crash. Based on this history, please predict the user's rating for the following item: Shanghai Surprise (1 being lowest and 5 being highest)

Output: 1.

#### A.1.2 Book.

- You are a book recommender system now.

Input: Here is the reading history of a user: Dress Your Family in Corduroy and Denim, My Age of Anxiety: Fear, Hope, Dread, and the Search for Peace of Mind, Knuffle Bunny: A Cautionary Tale, Don't Let The Pigeon Drive The Bus!, Purplicious (Pinkalicious). Based on this history, please predict the user's rating for the following item: I Know This Much Is True (1 being lowest and 5 being highest)

Output: 1.

Input: Here is the reading history of a user: Hostile Witness, Snake Skin, Solomon vs. Lord, Tough Cookie, The Black Bullet (Sean O'Brien Mystery/Thriller). Based on this history, please predict the user's rating for the following item: Blood Land (1 being lowest and 5 being highest)

Output: 5.

Input: Here is the reading history of a user: Inferno, An Abundance of Katherines, The Son, Joyland, The Guns at Last Light: The War in Western Europe, 1944-1945 (Liberation Trilogy). Based on this history, please predict the user's rating for the following item: The Geography of Bliss: One Grump's Search for the Happiest Places in the World (1 being lowest and 5 being highest)

Output: 5.

- You are a book recommender system now.

Input: Here is the reading history of a user: Dress Your Family in Corduroy and Denim, My Age of Anxiety: Fear, Hope, Dread, and the Search for Peace of Mind, Knuffle Bunny: A Cautionary Tale, Don't Let The Pigeon Drive The Bus!, Purplicious (Pinkalicious). Based on this history, please predict the user's rating for the following item: I Know This Much Is True (1 being lowest and 5 being highest)

Output: 1.

Input: Here is the reading history of a user: Hostile Witness, Snake Skin, Solomon vs. Lord, Tough Cookie, The Black Bullet (Sean O'Brien Mystery/Thriller). Based on this history, please predict the user's rating for the following item: Blood Land (1 being lowest and 5 being highest)

Output: 5.

Input: Here is the reading history of a user: Inferno, An Abundance of Katherines, The Son, Joyland, The Guns at Last Light: The War in Western Europe, 1944-1945 (Liberation Trilogy). Based on this history, please predict the user's rating for the following item: Allegiant (Divergent, #3) (1 being lowest and 5 being highest)

Output: 5.

- You are a book recommender system now.

Input: Here is the reading history of a user: Dress Your Family in Corduroy and Denim, My Age of Anxiety: Fear, Hope, Dread, and the Search for Peace of Mind, Knuffle Bunny: A Cautionary Tale, Don't Let The Pigeon Drive The Bus!, Purplicious (Pinkalicious). Based on this history, please predict the user's rating for the following item: I Know This Much Is True (1 being lowest and 5 being highest)

Output: 1.

Input: Here is the reading history of a user: Hostile Witness, Snake Skin, Solomon vs. Lord, Tough Cookie, The Black Bullet (Sean O'Brien Mystery/Thriller). Based on this history, please predict the user's rating for the following item: Blood Land (1 being lowest and 5 being highest)

Output: 5.

Input: Here is the reading history of a user: Middlesex: A Novel, Freakonomics: A Rogue Economist Explores the Hidden Side of Everything, Nefertiti: A Novel, The Count of Monte Cristo (Penguin Classics), The Mists of Avalon. Based on this history, please predict the user's rating for the following item: The Neverending Story (1 being lowest and 5 being highest)

Output: 4.

- You are a book recommender system now.

Input: Here is the reading history of a user: Dress Your Family in Corduroy and Denim, My Age of Anxiety: Fear, Hope, Dread, and the Search for Peace of Mind, Knuffle Bunny: A Cautionary Tale, Don't Let The Pigeon Drive The Bus!, Purplicious (Pinkalicious). Based on this history, please predict the user's rating for the following item: I Know This Much Is True (1 being lowest and 5 being highest)

Output: 1.

Input: Here is the reading history of a user: Hostile Witness, Snake Skin, Solomon vs. Lord, Tough Cookie, The Black Bullet (Sean O'Brien Mystery/Thriller). Based on this history, please predict the user's rating for the following item: Blood Land (1 being lowest and 5 being highest)

Output: 5.

Input: Here is the reading history of a user: The Mighty Storm (The Storm Series), Maybe Someday, Wethering the Storm (The Storm Series), Fading, Gone Girl. Based on this history, please predict the user's rating for the following item: The Resurrection of Aubrey Miller (1 being lowest and 5 being highest)

Output: 3.

- You are a book recommender system now.

Input: Here is the reading history of a user: Dress Your Family in Corduroy and Denim, My Age of Anxiety: Fear, Hope, Dread, and the Search for Peace of Mind, Knuffle Bunny: A Cautionary Tale, Don't Let The Pigeon Drive The Bus!, Purplicious (Pinkalicious). Based on this history, please predict the user's rating for the following item: I Know This Much Is True (1 being lowest and 5 being highest)

Output: 1.

Input: Here is the reading history of a user: Hostile Witness, Snake Skin, Solomon vs. Lord, Tough Cookie, The Black Bullet (Sean O'Brien Mystery/Thriller). Based on this history, please predict the user's rating for the following item: Blood Land (1 being lowest and 5 being highest)

Output: 5.

Input: Here is the reading history of a user: The Israel Lobby and U.S. Foreign Policy, Idiot America: How Stupidity Became a Virtue in the Land of the Free, Lies My Teacher Told Me : Everything Your American History Textbook Got Wrong, Game Change: Obama and the Clintons, McCain and Palin, and the Race of a Lifetime, The Psychopath Test: A Journey Through the Madness Industry. Based on this history, please predict the user's rating for the following item: Unfit for Command: Swift Boat Veterans Speak Out Against John Kerry (1 being lowest and 5 being highest)

Output: 1.

- You are a book recommender system now.

Input: Here is the reading history of a user: Dress Your Family in Corduroy and Denim, My Age of Anxiety: Fear, Hope, Dread, and the Search for Peace of Mind, Knuffle Bunny: A Cautionary Tale, Don't Let The Pigeon Drive The Bus!, Purplicious (Pinkalicious). Based on this history, please predict the user's rating for the following item: I Know This Much Is True (1 being lowest and 5 being highest)

Output: 1.

Input: Here is the reading history of a user: Hostile Witness, Snake Skin, Solomon vs. Lord, Tough Cookie, The Black Bullet (Sean O'Brien Mystery/Thriller). Based on this history, please predict the user's rating for the following item: Blood Land (1 being lowest and 5 being highest)

Output: 5.

Input: Here is the reading history of a user: The God Delusion, Three Cups of Tea, God Is Not Great: How Religion Poisons Everything, The Given Day LP: A Novel, Dauntless (The Lost Fleet, Book 1). Based on this history, please predict the user's rating for the following item: Heaven is for Real Movie Edition: A Little Boy's Astounding Story of His Trip to Heaven and Back (1 being lowest and 5 being highest)

Output: 1.

### A.1.3 Music.

- You are a music recommender system now.

Input: Here is the listening history of a user: Broken Bells, She & Him - Volume Two, April Uprising, Congratulations, You I Wind Land & Sea. Based on this history, please predict the user's rating for the following item: Fallow (1 being lowest and 5 being highest)

Output: 1.

Input: Here is the listening history of a user: Big Willie Style, Precious, Stan Getz With Laurindo Almeida, Power Clown, Serve Chilled. Based on this history, please predict the user's rating for the following item: C&eacute;u (1 being lowest and 5 being highest)

Output: 5.

Input: Here is the listening history of a user: Our Favorite Songs, Beethoven: Complete Cello Sonatas / Variations on Themes from Die Zauberflote Casals Edition, Igor Stravinsky: The Rite of Spring / Alexander Scriabin: The Poem of Ecstasy, Brahms: Violin Concerto / Mozart: Sinfonia Concertante, Mozart: Great Mass in C minor, K. 427; Exultate, jubilate, K. 165; Ave verum corpus, K. 618. Based on this history, please predict the user's rating for the following item: Black Codes (1 being lowest and 5 being highest)

Output: 5.

- You are a music recommender system now.

Input: Here is the listening history of a user: Broken Bells, She & Him - Volume Two, April Uprising, Congratulations, You I Wind Land & Sea. Based on this history, please predict the user's rating for the following item: Fallow (1 being lowest and 5 being highest)

Output: 1.

Input: Here is the listening history of a user: Big Willie Style, Precious, Stan Getz With Laurindo Almeida, Power Clown, Serve Chilled. Based on this history, please predict the user's rating for the following item: C&eacute;u (1 being lowest and 5 being highest)

Output: 5.

Input: Here is the listening history of a user: Our Favorite Songs, Beethoven: Complete Cello Sonatas / Variations on Themes from Die Zauberflöte Casals Edition, Igor Stravinsky: The Rite of Spring / Alexander Scriabin: The Poem of Ecstasy, Brahms: Violin Concerto / Mozart: Sinfonia Concertante, Mozart: Great Mass in C minor, K. 427; Exultate, jubilate, K. 165; Ave verum corpus, K. 618. Based on this history, please predict the user's rating for the following item: Rachmaninoff: Piano Concerto No. 3 / Tchaikovsky: Piano Concerto No. 1 (1 being lowest and 5 being highest)

Output: 5.

- You are a music recommender system now.

Input: Here is the listening history of a user: Broken Bells, She & Him - Volume Two, April Uprising, Congratulations, You I Wind Land & Sea. Based on this history, please predict the user's rating for the following item: Fallow (1 being lowest and 5 being highest)

Output: 1.

Input: Here is the listening history of a user: Big Willie Style, Precious, Stan Getz With Laurindo Almeida, Power Clown, Serve Chilled. Based on this history, please predict the user's rating for the following item: C&eacute;u (1 being lowest and 5 being highest)

Output: 5.

Input: Here is the listening history of a user: Premonition, That's the Stuff, The Ruminant Band, Top of the World, Laughing Down Crying. Based on this history, please predict the user's rating for the following item: Mass Romantic (1 being lowest and 5 being highest)

Output: 4.

- You are a music recommender system now.

Input: Here is the listening history of a user: Broken Bells, She & Him - Volume Two, April Uprising, Congratulations, You I Wind Land & Sea. Based on this history, please predict the user's rating for the following item: Fallow (1 being lowest and 5 being highest)

Output: 1.

Input: Here is the listening history of a user: Big Willie Style, Precious, Stan Getz With Laurindo Almeida, Power Clown, Serve Chilled. Based on this history, please predict the user's rating for the following item: C&eacute;u (1 being lowest and 5 being highest)

Output: 5.

Input: Here is the listening history of a user: Blunderbuss, Little Broken Hearts, havoc and bright lights, North, Closer To The Truth. Based on this history, please predict the user's rating for the following item: This Is Me...Then (1 being lowest and 5 being highest)

Output: 3.

- You are a music recommender system now.

Input: Here is the listening history of a user: Broken Bells, She & Him - Volume Two, April Uprising, Congratulations, You I Wind Land & Sea. Based on this history, please predict the user's rating for the following item: Fallow (1 being lowest and 5 being highest)

Output: 1.

Input: Here is the listening history of a user: Big Willie Style, Precious, Stan Getz With Laurindo Almeida, Power Clown, Serve Chilled. Based on this history, please predict the user's rating for the following item: C&eacute;u

(1 being lowest and 5 being highest)

Output: 5.

Input: Here is the listening history of a user: Revelations, Through Silver in Blood, Temple of the Morning Star, Show No Mercy, Jihad. Based on this history, please predict the user's rating for the following item: Spend the Night (1 being lowest and 5 being highest)

Output: 1.

- You are a music recommender system now.

Input: Here is the listening history of a user: Broken Bells, She & Him - Volume Two, April Uprising, Congratulations, You I Wind Land & Sea. Based on this history, please predict the user's rating for the following item: Fallow (1 being lowest and 5 being highest)

Output: 1.

Input: Here is the listening history of a user: Big Willie Style, Precious, Stan Getz With Laurindo Almeida, Power Clown, Serve Chilled. Based on this history, please predict the user's rating for the following item: C&eacut

(1 being lowest and 5 being highest)

Output: 5.

Input: Here is the listening history of a user: Revelations, Through Silver in Blood, Temple of the Morning Star, Show No Mercy, Jihad. Based on this history, please predict the user's rating for the following item: Carpe Diem (1 being lowest and 5 being highest)

Output: 1.

#### A.1.4 News.

- You are a news recommender system now.

Input: Here is the reading history of a user: 'At 237 Lbs., I Was Embarrassed To Go To The Gym. So I Did An At-Home BeachBody Program And Lost 117 Lbs.', Should You Try the Controversial Cabbage Soup Diet? See What Experts Have to Say, How Much You Can Change Your Abs in 2 Weeks, It's Easy to Overdose on Acetaminophen and It Can Kill You, New Study Says, The keto diet is hard work but this hack makes it so much easier. Based on this history, please predict the user's rating for the following item: Women's rugby teams join forces to move ambulance (1 being lowest and 5 being highest)

Output: 1.

Input: Here is the reading history of a user: How to Avoid Airbnb Scams and Find Legit Vacation Rentals Online, Watch: 'The View' Versus Donald Trump Jr.: Loud, Low Blows, Politics, Scandals And Great TV, Pete the Planner: Could a retiree outlive their savings even with a part time job? Possibly., Jim Edmonds Calls Police on Meghan King Edmonds Out of "Concern" For Their Kids, Henry Golding assumed costar Matthew McConaughey 'hated' him the first time they met on set: 'My world just imploded'. Based on this history, please predict the user's rating for the following item: Stephanie Parze's Car Is at Home. So Is Her Phone. But She's Missing. (1 being lowest and 5 being highest)

Output: 5.

Input: Here is the reading history of a user: What Tom Brady, Lamar Jackson Told Each Other After Patriots-Ravens, Why You Should Always Order Ginger Ale on a Flight, Here Are the Biggest Deals We're Anticipating for Black Friday, Cracker Barrel Has Two Thanksgiving Options This Year, and They Both Sound Delicious, Winners, losers from Cowboys' win over Giants on 'Monday Night Football'. Based on this history, please

predict the user's rating for the following item: 30 Best Black Friday Deals from Costco (1 being lowest and 5 being highest)

Output: 5.

- You are a news recommender system now.

Input: Here is the reading history of a user: 'At 237 Lbs., I Was Embarrassed To Go To The Gym. So I Did An At-Home BeachBody Program And Lost 117 Lbs.', Should You Try the Controversial Cabbage Soup Diet? See What Experts Have to Say, How Much You Can Change Your Abs in 2 Weeks, It's Easy to Overdose on Acetaminophen and It Can Kill You, New Study Says, The keto diet is hard work but this hack makes it so much easier. Based on this history, please predict the user's rating for the following item: Women's rugby teams join forces to move ambulance (1 being lowest and 5 being highest)

Output: 1.

Input: Here is the reading history of a user: How to Avoid Airbnb Scams and Find Legit Vacation Rentals Online, Watch: 'The View' Versus Donald Trump Jr.: Loud, Low Blows, Politics, Scandals And Great TV, Pete the Planner: Could a retiree outlive their savings even with a part time job? Possibly., Jim Edmonds Calls Police on Meghan King Edmonds Out of "Concern" For Their Kids, Henry Golding assumed costar Matthew McConaughey 'hated' him the first time they met on set: 'My world just imploded'. Based on this history, please predict the user's rating for the following item: Stephanie Parze's Car Is at Home. So Is Her Phone. But She's Missing. (1 being lowest and 5 being highest)

Output: 5.

Input: Here is the reading history of a user: Impeachment haunts the campaign trail as candidates compete against the bigger story, Alaska mine could generate \$1 billion a year: Is it worth the risk to salmon?, Trump Taxes: Appeals Court Rules President Must Turn Over 8 Years of Tax Returns, Buffett has \$128 billion in cash, and analysts can't figure out why he isn't spending it, The Justice Department is fishing for details about the anonymous 'resistance' op-ed writer. Based on this history, please predict the user's rating for the following item: Online Shopping Secrets Retailers Don't Want You To Know (1 being lowest and 5 being highest)

Output: 5.

- You are a news recommender system now.

Input: Here is the reading history of a user: 'At 237 Lbs., I Was Embarrassed To Go To The Gym. So I Did An At-Home BeachBody Program And Lost 117 Lbs.', Should You Try the Controversial Cabbage Soup Diet? See What Experts Have to Say, How Much You Can Change Your Abs in 2 Weeks, It's Easy to Overdose on Acetaminophen and It Can Kill You, New Study Says, The keto diet is hard work but this hack makes it so much easier. Based on this history, please predict the user's rating for the following item: Women's rugby teams join forces to move ambulance (1 being lowest and 5 being highest)

Output: 1.

Input: Here is the reading history of a user: How to Avoid Airbnb Scams and Find Legit Vacation Rentals Online, Watch: 'The View' Versus Donald Trump Jr.: Loud, Low Blows, Politics, Scandals And Great TV, Pete the Planner: Could a retiree outlive their savings even with a part time job? Possibly., Jim Edmonds Calls Police on Meghan King Edmonds Out of "Concern" For Their Kids, Henry Golding assumed costar Matthew McConaughey 'hated' him the first time they met on set: 'My world just imploded'. Based on this history, please predict the user's rating for the following item: Stephanie Parze's Car Is at Home. So Is Her Phone. But She's Missing. (1 being



lowest and 5 being highest)

Output: 5.

Input: Here is the reading history of a user: Oprah Winfrey Just Bought Jeff Bridges' Ranch in Montecito, Girlfriend testifies at trial of man in death of his fiancée, One of FBI's Most Wanted fugitives offers surrender, Dog Throws A Total Tantrum When She Realizes Mom Wants To Take The Stairs, A body-language expert says Meghan Markle is "politely disconnecting" from the public, and honestly, we would too. Based on this history, please predict the user's rating for the following item: U.S. 'flexible' on military exercises with South Korea as North demands cancellation (1 being lowest and 5 being highest)

Output: 3.

- You are a news recommender system now.

Input: Here is the reading history of a user: 'At 237 Lbs., I Was Embarrassed To Go To The Gym. So I Did An At-Home BeachBody Program And Lost 117 Lbs.', Should You Try the Controversial Cabbage Soup Diet? See What Experts Have to Say, How Much You Can Change Your Abs in 2 Weeks, It's Easy to Overdose on Acetaminophen and It Can Kill You, New Study Says, The keto diet is hard work but this hack makes it so much easier. Based on this history, please predict the user's rating for the following item: Women's rugby teams join forces to move ambulance (1 being lowest and 5 being highest)

Output: 1.

Input: Here is the reading history of a user: How to Avoid Airbnb Scams and Find Legit Vacation Rentals Online, Watch: 'The View' Versus Donald Trump Jr.: Loud, Low Blows, Politics, Scandals And Great TV, Pete the Planner: Could a retiree outlive their savings even with a part time job? Possibly., Jim Edmonds Calls Police on Meghan King Edmonds Out of "Concern" For Their Kids, Henry Golding assumed costar Matthew McConaughey 'hated' him the first time they met on set: 'My world just imploded'. Based on this history, please predict the user's rating for the following item: Stephanie Parze's Car Is at Home. So Is Her Phone. But She's Missing. (1 being lowest and 5 being highest)

Output: 5.

Input: Here is the reading history of a user: Mayfield's postgame outfit gets all the memes, Jamie Lee Curtis Opens Up About Being 20 Years Sober, Going Public With Her Addiction, Firefighters Find a Diamond Ring in the Getty Fire Rubble, Nigerian police free 259 people from Islamic institution, Russian smuggling linked to 39 bodies found in truck in Britain. Based on this history, please predict the user's rating for the following item: What Menopause Does to Women's Brains (1 being lowest and 5 being highest)

Output: 3.

- You are a news recommender system now.

Input: Here is the reading history of a user: 'At 237 Lbs., I Was Embarrassed To Go To The Gym. So I Did An At-Home BeachBody Program And Lost 117 Lbs.', Should You Try the Controversial Cabbage Soup Diet? See What Experts Have to Say, How Much You Can Change Your Abs in 2 Weeks, It's Easy to Overdose on Acetaminophen and It Can Kill You, New Study Says, The keto diet is hard work but this hack makes it so much easier. Based on this history, please predict the user's rating for the following item: Women's rugby teams join forces to move ambulance (1 being lowest and 5 being highest)

Output: 1.

Input: Here is the reading history of a user: How to Avoid Airbnb Scams and Find Legit Vacation Rentals Online, Watch: 'The View' Versus Donald Trump Jr.: Loud, Low Blows, Politics, Scandals And Great TV, Pete the Planner:

Could a retiree outlive their savings even with a part time job? Possibly., Jim Edmonds Calls Police on Meghan King Edmonds Out of "Concern" For Their Kids, Henry Golding assumed costar Matthew McConaughey 'hated' him the first time they met on set: 'My world just imploded'. Based on this history, please predict the user's rating for the following item: Stephanie Parze's Car Is at Home. So Is Her Phone. But She's Missing. (1 being lowest and 5 being highest)

Output: 5.

Input: Here is the reading history of a user: Impeachment haunts the campaign trail as candidates compete against the bigger story, Alaska mine could generate \$1 billion a year: Is it worth the risk to salmon?, Trump Taxes: Appeals Court Rules President Must Turn Over 8 Years of Tax Returns, Buffett has \$128 billion in cash, and analysts can't figure out why he isn't spending it, The Justice Department is fishing for details about the anonymous 'resistance' op-ed writer. Based on this history, please predict the user's rating for the following item: A \$15 latte shows how the supply of premium coffee is shrinking (1 being lowest and 5 being highest)

Output: 1

- You are a news recommender system now.

Input: Here is the reading history of a user: 'At 237 Lbs., I Was Embarrassed To Go To The Gym. So I Did An At-Home BeachBody Program And Lost 117 Lbs.', Should You Try the Controversial Cabbage Soup Diet? See What Experts Have to Say, How Much You Can Change Your Abs in 2 Weeks, It's Easy to Overdose on Acetaminophen and It Can Kill You, New Study Says, The keto diet is hard work but this hack makes it so much easier. Based on this history, please predict the user's rating for the following item: Women's rugby teams join forces to move ambulance (1 being lowest and 5 being highest)

Output: 1.

Input: Here is the reading history of a user: How to Avoid Airbnb Scams and Find Legit Vacation Rentals Online, Watch: 'The View' Versus Donald Trump Jr.: Loud, Low Blows, Politics, Scandals And Great TV, Pete the Planner: Could a retiree outlive their savings even with a part time job? Possibly., Jim Edmonds Calls Police on Meghan King Edmonds Out of "Concern" For Their Kids, Henry Golding assumed costar Matthew McConaughey 'hated' him the first time they met on set: 'My world just imploded'. Based on this history, please predict the user's rating for the following item: Stephanie Parze's Car Is at Home. So Is Her Phone. But She's Missing. (1 being lowest and 5 being highest)

Output: 5.

Input: Here is the reading history of a user: What Tom Brady, Lamar Jackson Told Each Other After Patriots-Ravens, Why You Should Always Order Ginger Ale on a Flight, Here Are the Biggest Deals We're Anticipating for Black Friday, Cracker Barrel Has Two Thanksgiving Options This Year, and They Both Sound Delicious, Winners, losers from Cowboys' win over Giants on 'Monday Night Football'. Based on this history, please predict the user's rating for the following item: Supporting your adult children can ruin your retirement plans (1 being lowest and 5 being highest)

Output: 1.

## A.2 text-davinci-002 with pairwise

### A.2.1 Movie.

- You are a movie recommender system now.

Input: Here is the watching history of a user: Gattaca, Armageddon, Big, Babes in Toyland, Gladiator. Based on this history, would this user prefer Donnie Brasco or Con Air? Answer Choices: **(A) Donnie Brasco** (B) Con Air

Output: The answer index is A.

Input: Here is the watching history of a user: The Adventures of Milo and Otis, The Pelican Brief, Dinosaur, Air Force One, The First Wives Club. Based on this history, would this user prefer The Good Bad and The Ugly or George of the Jungle? Answer Choices: (A) The Good Bad and The Ugly **(B) George of the Jungle**

Output: The answer index is B.

- You are a movie recommender system now.

Input: Here is the watching history of a user: Gattaca, Armageddon, Big, Babes in Toyland, Gladiator. Based on this history, would this user prefer Donnie Brasco or Con Air? Answer Choices: **(A) Donnie Brasco** (B) Con Air

Output: The answer index is A.

Input: Here is the watching history of a user: The Adventures of Milo and Otis, The Pelican Brief, Dinosaur, Air Force One, The First Wives Club. Based on this history, would this user prefer George of the Jungle or Tom and Huck? Answer Choices: **(A) George of the Jungle** (B) Tom and Huck

Output: The answer index is A.

- You are a movie recommender system now.

Input: Here is the watching history of a user: The Player, Spanking the Monkey, The Grifters, The Truman Show, Rosemary's Baby. Based on this history, would this user prefer Disturbing Behavior or Nosferatu? Answer Choices: **(A) Disturbing Behavior** (B) Nosferatu

Output: The answer index is A.

Input: Here is the watching history of a user: The Player, Spanking the Monkey, The Grifters, The Truman Show, Rosemary's Baby. Based on this history, would this user prefer Disturbing Behavior or Dangerous Liaisons? Answer Choices: **(A) Disturbing Behavior** (B) Dangerous Liaisons

Output: The answer index is B.

- You are a movie recommender system now.

Input: Here is the watching history of a user: The Player, Spanking the Monkey, The Grifters, The Truman Show, Rosemary's Baby. Based on this history, would this user prefer Disturbing Behavior or Nosferatu? Answer Choices: **(A) Disturbing Behavior** (B) Nosferatu

Output: The answer index is A.

Input: Here is the watching history of a user: Goldfinger, The Blues Brothers, Robocop, Rush Hour, Shaft. Based on this history, would this user prefer Highlander or Star Wars: Episode I - The Phantom Menace? Answer Choices: **(A) Highlander** (B) Star Wars: Episode I - The Phantom Menace

Output: The answer index is B.

- You are a movie recommender system now.

Input: Here is the watching history of a user: The Player, Spanking the Monkey, The Grifters, The Truman Show, Rosemary's Baby. Based on this history, would this user prefer Disturbing Behavior or Nosferatu? Answer Choices: **(A) Disturbing Behavior** (B) Nosferatu

Output: The answer index is A.

Input: Here is the watching history of a user: Goldfinger, The Blues Brothers, Robocop, Rush Hour, Shaft. Based on this history, would this user prefer The Fugitive or Highlander? Answer Choices: (A) The Fugitive (B) **Highlander**

Output: The answer index is **A**.

#### A.2.2 Book.

- You are a book recommender system now.

Input: Here is the reading history of a user: Dress Your Family in Corduroy and Denim, My Age of Anxiety: Fear, Hope, Dread, and the Search for Peace of Mind, Knuffle Bunny: A Cautionary Tale, Don't Let The Pigeon Drive The Bus!, Purplicious (Pinkalicious). Based on this history, would this user prefer Something Other Than God: How I Passionately Sought Happiness and Accidentally Found It or Moms Who Drink and Swear: True Tales of Loving My Kids While Losing My Mind? Answer Choices: (A) **Something Other Than God: How I Passionately Sought Happiness and Accidentally Found It** (B) Moms Who Drink and Swear: True Tales of Loving My Kids While Losing My Mind

Output: The answer index is **A**.

Input: Here is the reading history of a user: Tangled (The Tangled Series), Thief (Love Me With Lies) (Volume 3), Unteachable, Lovely Trigger (Tristan & Danika) (Volume 3), Monster in His Eyes. Based on this history, would this user prefer Beautiful Ink (Forever Inked Novel) (Volume 1) or Bob Books, Set 1: Beginning Readers? Answer Choices: (A) Beautiful Ink (Forever Inked Novel) (Volume 1) (B) **Bob Books, Set 1: Beginning Readers**

Output: The answer index is **B**.

- You are a book recommender system now.

Input: Here is the reading history of a user: Dress Your Family in Corduroy and Denim, My Age of Anxiety: Fear, Hope, Dread, and the Search for Peace of Mind, Knuffle Bunny: A Cautionary Tale, Don't Let The Pigeon Drive The Bus!, Purplicious (Pinkalicious). Based on this history, would this user prefer Something Other Than God: How I Passionately Sought Happiness and Accidentally Found It or Moms Who Drink and Swear: True Tales of Loving My Kids While Losing My Mind? Answer Choices: (A) **Something Other Than God: How I Passionately Sought Happiness and Accidentally Found It** (B) Moms Who Drink and Swear: True Tales of Loving My Kids While Losing My Mind

Output: The answer index is **A**.

Input: Here is the reading history of a user: Tangled (The Tangled Series), Thief (Love Me With Lies) (Volume 3), Unteachable, Lovely Trigger (Tristan & Danika) (Volume 3), Monster in His Eyes. Based on this history, would this user prefer Bob Books, Set 1: Beginning Readers or Because of Low (Sea Breeze)? Answer Choices: (A) **Bob Books, Set 1: Beginning Readers** (B) Because of Low (Sea Breeze)

Output: The answer index is **A**.

- You are a book recommender system now.

Input: Here is the reading history of a user: Dress Your Family in Corduroy and Denim, My Age of Anxiety: Fear, Hope, Dread, and the Search for Peace of Mind, Knuffle Bunny: A Cautionary Tale, Don't Let The Pigeon Drive The Bus!, Purplicious (Pinkalicious). Based on this history, would this user prefer Something Other Than God: How I Passionately Sought Happiness and Accidentally Found It or Moms Who Drink and Swear: True Tales of Loving My Kids While Losing My Mind? Answer Choices: (A) **Something Other Than God: How I Passionately Sought Happiness and Accidentally Found It** (B) Moms Who Drink and Swear: True Tales of

Loving My Kids While Losing My Mind

Output: The answer index is **A**.

Input: Here is the reading history of a user: Tangled (The Tangled Series), Thief (Love Me With Lies) (Volume 3), Unteachable, Lovely Trigger (Tristan & Danika) (Volume 3), Monster in His Eyes. Based on this history, would this user prefer Beautiful Ink (Forever Inked Novel) (Volume 1) or Bob Books, Set 1: Beginning Readers? Answer Choices: (A) Beautiful Ink (Forever Inked Novel) (Volume 1) **(B) Bob Books, Set 1: Beginning Readers**

Output: The answer index is **B**.

- You are a book recommender system now.

Input: Here is the reading history of a user: Dress Your Family in Corduroy and Denim, My Age of Anxiety: Fear, Hope, Dread, and the Search for Peace of Mind, Knuffle Bunny: A Cautionary Tale, Don't Let The Pigeon Drive The Bus!, Purplicious (Pinkalicious). Based on this history, would this user prefer Something Other Than God: How I Passionately Sought Happiness and Accidentally Found It or Moms Who Drink and Swear: True Tales of Loving My Kids While Losing My Mind? Answer Choices: **(A) Something Other Than God: How I Passionately Sought Happiness and Accidentally Found It** (B) Moms Who Drink and Swear: True Tales of Loving My Kids While Losing My Mind

Output: The answer index is **A**.

Input: Here is the reading history of a user: Tangled (The Tangled Series), Thief (Love Me With Lies) (Volume 3), Unteachable, Lovely Trigger (Tristan & Danika) (Volume 3), Monster in His Eyes. Based on this history, would this user prefer Bob Books, Set 1: Beginning Readers or More Than This? Answer Choices: **(A) Bob Books, Set 1: Beginning Readers** (B) More Than This

Output: The answer index is **B**.

- You are a book recommender system now.

Input: Here is the reading history of a user: Dress Your Family in Corduroy and Denim, My Age of Anxiety: Fear, Hope, Dread, and the Search for Peace of Mind, Knuffle Bunny: A Cautionary Tale, Don't Let The Pigeon Drive The Bus!, Purplicious (Pinkalicious). Based on this history, would this user prefer Something Other Than God: How I Passionately Sought Happiness and Accidentally Found It or Moms Who Drink and Swear: True Tales of Loving My Kids While Losing My Mind? Answer Choices: **(A) Something Other Than God: How I Passionately Sought Happiness and Accidentally Found It** (B) Moms Who Drink and Swear: True Tales of Loving My Kids While Losing My Mind

Output: The answer index is **A**.

Input: Here is the reading history of a user: Inferno, An Abundance of Katherines, The Son, Joyland, The Guns at Last Light: The War in Western Europe, 1944-1945 (Liberation Trilogy). Based on this history, would this user prefer The Execution of Noa P. Singleton: A Novel or Allegiant (Divergent, #3)? Answer Choices: (A) The Execution of Noa P. Singleton: A Novel **(B) Allegiant (Divergent, #3)**

Output: The answer index is **A**.

- You are a book recommender system now.

Input: Here is the reading history of a user: Dress Your Family in Corduroy and Denim, My Age of Anxiety: Fear, Hope, Dread, and the Search for Peace of Mind, Knuffle Bunny: A Cautionary Tale, Don't Let The Pigeon Drive The Bus!, Purplicious (Pinkalicious). Based on this history, would this user prefer Something Other Than God: How I Passionately Sought Happiness and Accidentally Found It or Moms Who Drink and Swear: True Tales of Loving My Kids While Losing My Mind? Answer Choices: **(A) Something Other Than God: How I**

**Passionately Sought Happiness and Accidentally Found It** (B) Moms Who Drink and Swear: True Tales of Loving My Kids While Losing My Mind

Output: The answer index is A.

Input: Here is the reading history of a user: Inferno, An Abundance of Katherines, The Son, Joyland, The Guns at Last Light: The War in Western Europe, 1944-1945 (Liberation Trilogy). Based on this history, would this user prefer Allegiant (Divergent, #3) or No Easy Day: The Autobiography of a Navy Seal: The Firsthand Account of the Mission That Killed Osama Bin Laden? Answer Choices: **(A) Allegiant (Divergent, #3)** (B) No Easy Day: The Autobiography of a Navy Seal: The Firsthand Account of the Mission That Killed Osama Bin Laden

Output: The answer index is B.

### A.2.3 Music.

- You are a music recommender system now.

Input: Here is the listening history of a user: Broken Bells, She & Him - Volume Two, April Uprising, Congratulations, You I Wind Land & Sea. Based on this history, would this user prefer This Is Happening or Thor?

Answer Choices: **(A) This Is Happening** (B) Thor

Output: The answer index is A.

Input: Here is the listening history of a user: Wild Flag, Moroccan Roll, Cool Struttin', First And Last And Always, Pilgrim. Based on this history, would this user prefer Three Chords Good or Another Day on Earth? Answer Choices: **(A) Three Chords Good** (B) Another Day on Earth

Output: The answer index is A.

- You are a music recommender system now.

Input: Here is the listening history of a user: Broken Bells, She & Him - Volume Two, April Uprising, Congratulations, You I Wind Land & Sea. Based on this history, would this user prefer This Is Happening or Thor?

Answer Choices: **(A) This Is Happening** (B) Thor

Output: The answer index is A.

Input: Here is the listening history of a user: Wild Flag, Moroccan Roll, Cool Struttin', First And Last And Always, Pilgrim. Based on this history, would this user prefer Philosophy Of The World or Three Chords Good? Answer Choices: (A) Philosophy Of The World **(B) Three Chords Good**

Output: The answer index is B.

- You are a music recommender system now.

Input: Here is the listening history of a user: Broken Bells, She & Him - Volume Two, April Uprising, Congratulations, You I Wind Land & Sea. Based on this history, would this user prefer This Is Happening or Thor?

Answer Choices: **(A) This Is Happening** (B) Thor

Output: The answer index is A.

Input: Here is the listening history of a user: New Miserable Experience, We Were Dead Before The Ship Even Sank, Stadium Arcadium, Dirt Farmer, April. Based on this history, would this user prefer Off the Ground or I Am Me? Answer Choices: **(A) Off the Ground** (B) I Am Me

Output: The answer index is B.

- You are a music recommender system now.

Input: Here is the listening history of a user: Broken Bells, She & Him - Volume Two, April Uprising, Congratulations, You I Wind Land & Sea. Based on this history, would this user prefer This Is Happening or Thor?

Answer Choices: (A) **This Is Happening** (B) Thor

Output: The answer index is A.

Input: Here is the listening history of a user: New Miserable Experience, We Were Dead Before The Ship Even Sank, Stadium Arcadium, Dirt Farmer, April. Based on this history, would this user prefer The Lost Notebooks of Hank Williams or Off the Ground? Answer Choices: (A) The Lost Notebooks of Hank Williams (B) **Off the Ground**

Output: The answer index is B.

- You are a music recommender system now.

Input: Here is the listening history of a user: Broken Bells, She & Him - Volume Two, April Uprising, Congratulations, You I Wind Land & Sea. Based on this history, would this user prefer This Is Happening or Thor?

Answer Choices: (A) **This Is Happening** (B) Thor

Output: The answer index is A.

Input: Here is the listening history of a user: New Miserable Experience, We Were Dead Before The Ship Even Sank, Stadium Arcadium, Dirt Farmer, April. Based on this history, would this user prefer Off the Ground or I Am Me? Answer Choices: (A) **Off the Ground** (B) I Am Me

Output: The answer index is B.

- You are a music recommender system now.

Input: Here is the listening history of a user: Broken Bells, She & Him - Volume Two, April Uprising, Congratulations, You I Wind Land & Sea. Based on this history, would this user prefer This Is Happening or Thor?

Answer Choices: (A) **This Is Happening** (B) Thor

Output: The answer index is A.

Input: Here is the listening history of a user: New Miserable Experience, We Were Dead Before The Ship Even Sank, Stadium Arcadium, Dirt Farmer, April. Based on this history, would this user prefer Wrecking Ball or Off the Ground? Answer Choices: (A) Wrecking Ball (B) **Off the Ground**

Output: The answer index is A.

#### A.2.4 News.

- You are a news recommender system now.

Input: Here is the reading history of a user: 'At 237 Lbs., I Was Embarrassed To Go To The Gym. So I Did An At-Home BeachBody Program And Lost 117 Lbs.', Should You Try the Controversial Cabbage Soup Diet? See What Experts Have to Say, How Much You Can Change Your Abs in 2 Weeks, It's Easy to Overdose on Acetaminophen and It Can Kill You, New Study Says, The keto diet is hard work but this hack makes it so much easier. Based on this history, would this user prefer Teresa Giudice Gives Advice to Lori Loughlin as She Faces Prison in College Admissions Scandal (Exclusive) or Lone Waffle House employee gets a helping hand from customers? Answer Choices: (A) **Teresa Giudice Gives Advice to Lori Loughlin as She Faces Prison in College Admissions Scandal (Exclusive)** (B) Lone Waffle House employee gets a helping hand from customers

Output: The answer index is A.

Input: Here is the reading history of a user: John Witherspoon Dies: Comedian & 'Friday' Star Was 77, Chick-fil-A Apologizes to Customers for Promoting National Sandwich Day Which Is on a Sunday, Trailer - Star Wars: The Rise of Skywalker, 31 TV reboots, remakes, and spin-offs that are in the works, Luke DeCock: After Cole



Anthony's spectacular UNC debut, he's not just talented. He's indispensable.. Based on this history, would this user prefer Opinion: Colin Kaepernick is about to get what he deserves: a chance or Pete Davidson, Kaia Gerber Are Dating, Trying to Stay 'Low Profile'? Answer Choices: **(A) Opinion: Colin Kaepernick is about to get what he deserves: a chance** (B) Pete Davidson, Kaia Gerber Are Dating, Trying to Stay 'Low Profile'

Output: The answer index is **A**.

- You are a news recommender system now.

Input: Here is the reading history of a user: 'At 237 Lbs., I Was Embarrassed To Go To The Gym. So I Did An At-Home BeachBody Program And Lost 117 Lbs.', Should You Try the Controversial Cabbage Soup Diet? See What Experts Have to Say, How Much You Can Change Your Abs in 2 Weeks, It's Easy to Overdose on Acetaminophen and It Can Kill You, New Study Says, The keto diet is hard work but this hack makes it so much easier. Based on this history, would this user prefer Teresa Giudice Gives Advice to Lori Loughlin as She Faces Prison in College Admissions Scandal (Exclusive) or Lone Waffle House employee gets a helping hand from customers? Answer Choices: **(A) Teresa Giudice Gives Advice to Lori Loughlin as She Faces Prison in College Admissions Scandal (Exclusive)** (B) Lone Waffle House employee gets a helping hand from customers

Output: The answer index is **A**.

Input: Here is the reading history of a user: John Witherspoon Dies: Comedian & 'Friday' Star Was 77, Chick-fil-A Apologizes to Customers for Promoting National Sandwich Day Which Is on a Sunday, Trailer - Star Wars: The Rise of Skywalker, 31 TV reboots, remakes, and spin-offs that are in the works, Luke DeCock: After Cole Anthony's spectacular UNC debut, he's not just talented. He's indispensable.. Based on this history, would this user prefer Supporting your adult children can ruin your retirement plans or Opinion: Colin Kaepernick is about to get what he deserves: a chance? Answer Choices: (A) Supporting your adult children can ruin your retirement plans **(B) Opinion: Colin Kaepernick is about to get what he deserves: a chance**

Output: The answer index is **B**.

- You are a news recommender system now.

Input: Here is the reading history of a user: 'At 237 Lbs., I Was Embarrassed To Go To The Gym. So I Did An At-Home BeachBody Program And Lost 117 Lbs.', Should You Try the Controversial Cabbage Soup Diet? See What Experts Have to Say, How Much You Can Change Your Abs in 2 Weeks, It's Easy to Overdose on Acetaminophen and It Can Kill You, New Study Says, The keto diet is hard work but this hack makes it so much easier. Based on this history, would this user prefer Teresa Giudice Gives Advice to Lori Loughlin as She Faces Prison in College Admissions Scandal (Exclusive) or Lone Waffle House employee gets a helping hand from customers? Answer Choices: **(A) Teresa Giudice Gives Advice to Lori Loughlin as She Faces Prison in College Admissions Scandal (Exclusive)** (B) Lone Waffle House employee gets a helping hand from customers

Output: The answer index is **A**.

Input: Here is the reading history of a user: Mayfield's postgame outfit gets all the memes, Jamie Lee Curtis Opens Up About Being 20 Years Sober, Going Public With Her Addiction, Firefighters Find a Diamond Ring in the Getty Fire Rubble, Nigerian police free 259 people from Islamic institution, Russian smuggling linked to 39 bodies found in truck in Britain. Based on this history, would this user prefer There are 14 cheap days to fly left in 2019: When are they and what deals can you score? or What Menopause Does to Women's Brains? Answer Choices: (A) There are 14 cheap days to fly left in 2019: When are they and what deals can you score? **(B) What**



## Menopause Does to Women's Brains

Output: The answer index is B.

- You are a news recommender system now.

Input: Here is the reading history of a user: 'At 237 Lbs., I Was Embarrassed To Go To The Gym. So I Did An At-Home BeachBody Program And Lost 117 Lbs.', Should You Try the Controversial Cabbage Soup Diet? See What Experts Have to Say, How Much You Can Change Your Abs in 2 Weeks, It's Easy to Overdose on Acetaminophen and It Can Kill You, New Study Says, The keto diet is hard work but this hack makes it so much easier. Based on this history, would this user prefer Teresa Giudice Gives Advice to Lori Loughlin as She Faces Prison in College Admissions Scandal (Exclusive) or Lone Waffle House employee gets a helping hand from customers? Answer Choices: (A) **Teresa Giudice Gives Advice to Lori Loughlin as She Faces Prison in College Admissions Scandal (Exclusive)** (B) Lone Waffle House employee gets a helping hand from customers

Output: The answer index is A.

Input: Here is the reading history of a user: Mayfield's postgame outfit gets all the memes, Jamie Lee Curtis Opens Up About Being 20 Years Sober, Going Public With Her Addiction, Firefighters Find a Diamond Ring in the Getty Fire Rubble, Nigerian police free 259 people from Islamic institution, Russian smuggling linked to 39 bodies found in truck in Britain. Based on this history, would this user prefer What Menopause Does to Women's Brains or Impeachment inquiry: White House releases rough transcript of Trump's earlier call with Zelensky? Answer Choices: (A) **What Menopause Does to Women's Brains** (B) Impeachment inquiry: White House releases rough transcript of Trump's earlier call with Zelensky

Output: The answer index is B.

- You are a news recommender system now.

Input: Here is the reading history of a user: 'At 237 Lbs., I Was Embarrassed To Go To The Gym. So I Did An At-Home BeachBody Program And Lost 117 Lbs.', Should You Try the Controversial Cabbage Soup Diet? See What Experts Have to Say, How Much You Can Change Your Abs in 2 Weeks, It's Easy to Overdose on Acetaminophen and It Can Kill You, New Study Says, The keto diet is hard work but this hack makes it so much easier. Based on this history, would this user prefer Teresa Giudice Gives Advice to Lori Loughlin as She Faces Prison in College Admissions Scandal (Exclusive) or Lone Waffle House employee gets a helping hand from customers? Answer Choices: (A) **Teresa Giudice Gives Advice to Lori Loughlin as She Faces Prison in College Admissions Scandal (Exclusive)** (B) Lone Waffle House employee gets a helping hand from customers

Output: The answer index is A.

Input: Here is the reading history of a user: Oprah Winfrey Just Bought Jeff Bridges' Ranch in Montecito, Girlfriend testifies at trial of man in death of his fiancée, One of FBI's Most Wanted fugitives offers surrender, Dog Throws A Total Tantrum When She Realizes Mom Wants To Take The Stairs, A body-language expert says Meghan Markle is "politely disconnecting" from the public, and honestly, we would too. Based on this history, would this user prefer GoFundMe Honors Good Samaritans at First Heroes Celebration: 'Amazing Things Are Happening' or Santa Clarita shooting: Unregistered guns found in home of Saugus suspect; motive a mystery? Answer Choices: (A) GoFundMe Honors Good Samaritans at First Heroes Celebration: 'Amazing Things Are Happening' (B) **Santa Clarita shooting: Unregistered guns found in home of Saugus suspect; motive a**

**mystery**

Output: The answer index is **A**.

- **You are a news recommender system now.**

Input: Here is the reading history of a user: 'At 237 Lbs., I Was Embarrassed To Go To The Gym. So I Did An At-Home BeachBody Program And Lost 117 Lbs.', Should You Try the Controversial Cabbage Soup Diet? See What Experts Have to Say, How Much You Can Change Your Abs in 2 Weeks, It's Easy to Overdose on Acetaminophen and It Can Kill You, New Study Says, The keto diet is hard work but this hack makes it so much easier. Based on this history, would this user prefer Teresa Giudice Gives Advice to Lori Loughlin as She Faces Prison in College Admissions Scandal (Exclusive) or Lone Waffle House employee gets a helping hand from customers? Answer Choices: **(A) Teresa Giudice Gives Advice to Lori Loughlin as She Faces Prison in College Admissions Scandal (Exclusive)** (B) Lone Waffle House employee gets a helping hand from customers

Output: The answer index is **A**.

Input: Here is the reading history of a user: Oprah Winfrey Just Bought Jeff Bridges' Ranch in Montecito, Girlfriend testifies at trial of man in death of his fiancée, One of FBI's Most Wanted fugitives offers surrender, Dog Throws A Total Tantrum When She Realizes Mom Wants To Take The Stairs, A body-language expert says Meghan Markle is "politely disconnecting" from the public, and honestly, we would too. Based on this history, would this user prefer Santa Clarita shooting: Unregistered guns found in home of Saugus suspect; motive a mystery or Maze of tunnels reveals remains of ancient Jerusalem? Answer Choices: **(A) Santa Clarita shooting: Unregistered guns found in home of Saugus suspect; motive a mystery** (B) Maze of tunnels reveals remains of ancient Jerusalem

Output: The answer index is **B**.

**A.3 text-davinci-002 with listwise****A.3.1 Movie.**

- **You are a movie recommender system now.**

Input: Here is the watching history of a user: Gattaca, Armageddon, Big, Babes in Toyland, Gladiator. Based on this history, please rank the following candidate movies: (A) Con Air (B) Mulan (C) Nikita **(D) Donnie Brasco** (E) Star Wars: Episode I - The Phantom Menace

Output: The answer index is **D A E B C**.

Input: Here is the watching history of a user: Rushmore, South Park: Bigger, Longer and Uncut, The Sixth Sense, Who Framed Roger Rabbit?, Trick. Based on this history, please rank the following candidate movies: **(A) Some Like It Hot** (B) Wild Wild West (C) Mystery Men (D) The Mosquito Coast (E) Boys Don't Cry

Output: The answer index is **A C E D B**.

- **You are a movie recommender system now.**

Input: Here is the watching history of a user: Gattaca, Armageddon, Big, Babes in Toyland, Gladiator. Based on this history, please rank the following candidate movies: (A) Con Air (B) Mulan (C) Nikita **(D) Donnie Brasco** (E) Star Wars: Episode I - The Phantom Menace

Output: The answer index is **D A E B C**.

Input: Here is the watching history of a user: The Player, Spanking the Monkey, The Grifters, The Truman Show, Rosemary's Baby. Based on this history, please rank the following candidate movies: (A) **Disturbing Behavior** (B) Dangerous Liaisons (C) Nosferatu (D) Picnic (E) 8 1/2

Output: The answer index is A B C D E.

- You are a movie recommender system now.

Input: Here is the watching history of a user: Gattaca, Armageddon, Big, Babes in Toyland, Gladiator. Based on this history, please rank the following candidate movies: (A) Con Air (B) Mulan (C) Nikita (D) **Donnie Brasco** (E) Star Wars: Episode I - The Phantom Menace

Output: The answer index is D A E B C.

Input: Here is the watching history of a user: The Adventures of Milo and Otis, The Pelican Brief, Dinosaur, Air Force One, The First Wives Club. Based on this history, please rank the following candidate movies: (A) The Good Bad and The Ugly (B) Robin Hood: Men in Tights (C) Thumbelina (D) **George of the Jungle** (E) Tom and Huck

Output: The answer index is A D E B C.

- You are a movie recommender system now.

Input: Here is the watching history of a user: Gattaca, Armageddon, Big, Babes in Toyland, Gladiator. Based on this history, please rank the following candidate movies: (A) Con Air (B) Mulan (C) Nikita (D) **Donnie Brasco** (E) Star Wars: Episode I - The Phantom Menace

Output: The answer index is D A E B C.

Input: Here is the watching history of a user: Ben-Hur, In the Line of Fire, Seven Samurai, The Wrong Trousers, Groundhog Day. Based on this history, please rank the following candidate movies: (A) Heathers (B) Backdraft (C) **Bob Roberts** (D) Ghost (E) Eat Drink Man Woman

Output: The answer index is A D C B E.

- You are a movie recommender system now.

Input: Here is the watching history of a user: Gattaca, Armageddon, Big, Babes in Toyland, Gladiator. Based on this history, please rank the following candidate movies: (A) Con Air (B) Mulan (C) Nikita (D) **Donnie Brasco** (E) Star Wars: Episode I - The Phantom Menace

Output: The answer index is D A E B C.

Input: Here is the watching history of a user: Mrs. Doubtfire, Mr. Saturday Night, The Twelve Chairs, Nothing in Common, Aladdin and the King of Thieves. Based on this history, please rank the following candidate movies: (A) Predator (B) With Honors (C) Police Academy 5: Assignment: Miami Beach (D) Funny Farm (E) **The Third Man**

Output: The answer index is B D A C E.

- You are a movie recommender system now.

Input: Here is the watching history of a user: Gattaca, Armageddon, Big, Babes in Toyland, Gladiator. Based on this history, please rank the following candidate movies: (A) Con Air (B) Mulan (C) Nikita (D) **Donnie Brasco** (E) Star Wars: Episode I - The Phantom Menace

Output: The answer index is D A E B C.

Input: Here is the watching history of a user: Goldfinger, The Blues Brothers, Robocop, Rush Hour, Shaft. Based on this history, please rank the following candidate movies: (A) Star Wars: Episode I - The Phantom Menace (B)

**Highlander** (C) Dudley Do-Right (D) The Mod Squad (E) The Fugitive

Output: The answer index is E A D C B.

#### A.3.2 Book.

- You are a book recommender system now.

Input: Here is the reading history of a user: Dress Your Family in Corduroy and Denim, My Age of Anxiety: Fear, Hope, Dread, and the Search for Peace of Mind, Knuffle Bunny: A Cautionary Tale, Don't Let The Pigeon Drive The Bus!, Purplicious (Pinkalicious). Based on this history, please rank the following candidate books: (A) Moms Who Drink and Swear: True Tales of Loving My Kids While Losing My Mind (B) Suicide of a Superpower: Will America Survive to 2025? (C) The Particular Sadness of Lemon Cake: A Novel (D) **Something Other Than God: How I Passionately Sought Happiness and Accidentally Found It** (E) I Know This Much Is True

Output: The answer index is D A C B E.

Input: Here is the reading history of a user: Heft: A Novel, Knocking on Heaven's Door: The Path to a Better Way of Death, How to Fail at Almost Everything and Still Win Big: Kind of the Story of My Life, Hatching Twitter: A True Story of Money, Power, Friendship, and Betrayal, Flash Boys. Based on this history, please rank the following candidate books: (A) **To Sell Is Human: The Surprising Truth About Moving Others** (B) A Long Way Down (C) The Talent Code: Greatness Isn't Born. It's Grown. (D) The Bat (E) White Teeth

Output: The answer index is A C B D E.

- You are a book recommender system now.

Input: Here is the reading history of a user: Dress Your Family in Corduroy and Denim, My Age of Anxiety: Fear, Hope, Dread, and the Search for Peace of Mind, Knuffle Bunny: A Cautionary Tale, Don't Let The Pigeon Drive The Bus!, Purplicious (Pinkalicious). Based on this history, please rank the following candidate books: (A) Moms Who Drink and Swear: True Tales of Loving My Kids While Losing My Mind (B) Suicide of a Superpower: Will America Survive to 2025? (C) The Particular Sadness of Lemon Cake: A Novel (D) **Something Other Than God: How I Passionately Sought Happiness and Accidentally Found It** (E) I Know This Much Is True

Output: The answer index is D A C B E.

Input: Here is the reading history of a user: One Week Girlfriend: A Novel (One Week Girlfriend Quartet), Beautiful Stranger, Going Under, The Bet, Second Chance Boyfriend (Drew + Fable) (Volume 2). Based on this history, please rank the following candidate books: (A) Pieces of You (Shattered Hearts) (Volume 2) (B) Playing Patience (C) Scandalous (D) Scandalous 2 (E) **Twisted Perfection (Perfection, Bk 1) (The Rosemary Beach Series)**

Output: The answer index is E A C D B.

- You are a book recommender system now.

Input: Here is the reading history of a user: Dress Your Family in Corduroy and Denim, My Age of Anxiety: Fear, Hope, Dread, and the Search for Peace of Mind, Knuffle Bunny: A Cautionary Tale, Don't Let The Pigeon Drive The Bus!, Purplicious (Pinkalicious). Based on this history, please rank the following candidate books: (A) Moms Who Drink and Swear: True Tales of Loving My Kids While Losing My Mind (B) Suicide of a Superpower: Will America Survive to 2025? (C) The Particular Sadness of Lemon Cake: A Novel (D) **Something Other Than God: How I Passionately Sought Happiness and Accidentally Found It** (E) I Know This Much Is True

Output: The answer index is D A C B E.

Input: Here is the reading history of a user: Reaper's Property, Beautiful Bastard (The Beautiful Series), Beautiful Stranger, Accidentally On Purpose, Destiny Binds (Timber Wolves Trilogy, Book 1). Based on this history, please rank the following candidate books: (A) The Bronze Horseman (B) Seducing Cinderella (Fighting for Love) (C) **The Siren (The Original Sinners)** (D) The Golden Lily: A Bloodlines Novel (E) Going Under

Output: The answer index is A C D B E.

- You are a book recommender system now.

Input: Here is the reading history of a user: Dress Your Family in Corduroy and Denim, My Age of Anxiety: Fear, Hope, Dread, and the Search for Peace of Mind, Knuffle Bunny: A Cautionary Tale, Don't Let The Pigeon Drive The Bus!, Purplicious (Pinkalicious). Based on this history, please rank the following candidate books: (A) Moms Who Drink and Swear: True Tales of Loving My Kids While Losing My Mind (B) Suicide of a Superpower: Will America Survive to 2025? (C) The Particular Sadness of Lemon Cake: A Novel (D) **Something Other Than God: How I Passionately Sought Happiness and Accidentally Found It** (E) I Know This Much Is True

Output: The answer index is D A C B E.

Input: Here is the reading history of a user: Flowers for Algernon, Five Days at Memorial: Life and Death in a Storm-Ravaged Hospital, Hollow City (Miss Peregrine's Peculiar Children), The Winter People: A Novel, The Ocean at the End of the Lane: A Novel. Based on this history, please rank the following candidate books: (A) **Confessions of a Sociopath: A Life Spent Hiding in Plain Sight** (B) Dark Places: A Novel (C) One Good Dog (D) Monkey Mind: A Memoir of Anxiety (E) Quiet: The Power of Introverts in a World That Can't Stop Talking

Output: The answer index is C D A B E.

- You are a book recommender system now.

Input: Here is the reading history of a user: Dress Your Family in Corduroy and Denim, My Age of Anxiety: Fear, Hope, Dread, and the Search for Peace of Mind, Knuffle Bunny: A Cautionary Tale, Don't Let The Pigeon Drive The Bus!, Purplicious (Pinkalicious). Based on this history, please rank the following candidate books: (A) Moms Who Drink and Swear: True Tales of Loving My Kids While Losing My Mind (B) Suicide of a Superpower: Will America Survive to 2025? (C) The Particular Sadness of Lemon Cake: A Novel (D) **Something Other Than God: How I Passionately Sought Happiness and Accidentally Found It** (E) I Know This Much Is True

Output: The answer index is D A C B E.

Input: Here is the reading history of a user: Inferno, An Abundance of Katherines, The Son, Joyland, The Guns at Last Light: The War in Western Europe, 1944-1945 (Liberation Trilogy). Based on this history, please rank the following candidate books: (A) The Geography of Bliss: One Grump's Search for the Happiest Places in the World (B) **Allegiant (Divergent, #3)** (C) Billy Lynn's Long Halftime Walk: A Novel (D) The Execution of Noa P. Singleton: A Novel (E) No Easy Day: The Autobiography of a Navy Seal: The Firsthand Account of the Mission That Killed Osama Bin Laden

Output: The answer index is C D A B E.

- You are a book recommender system now.

Input: Here is the reading history of a user: Dress Your Family in Corduroy and Denim, My Age of Anxiety: Fear, Hope, Dread, and the Search for Peace of Mind, Knuffle Bunny: A Cautionary Tale, Don't Let The Pigeon Drive The Bus!, Purplicious (Pinkalicious). Based on this history, please rank the following candidate books: (A) Moms Who Drink and Swear: True Tales of Loving My Kids While Losing My Mind (B) Suicide of a Superpower: Will America Survive to 2025? (C) The Particular Sadness of Lemon Cake: A Novel (D) **Something Other Than**

**God: How I Passionately Sought Happiness and Accidentally Found It** (E) I Know This Much Is True

Output: The answer index is D A C B E.

Input: Here is the reading history of a user: The War of the Worlds (Penguin Classics), Glock: The Rise of America's Gun, The Housekeeper and the Professor, I Am Legend, The Girl Who Loved Tom Gordon. Based on this history, please rank the following candidate books: (A) Dreamcatcher (B) The Picture of Dorian Gray (C) The Road (D) Soft Target: A Thriller **(E) Hatchet**

Output: The answer index is A C D B E.

### A.3.3 Music.

- You are a music recommender system now.

Input: Here is the listening history of a user: Broken Bells, She & Him - Volume Two, April Uprising, Congratulations, You I Wind Land & Sea. Based on this history, please rank the following candidate music: (A) Thor (B) All Gas. No Brake. **(C) This Is Happening** (D) Momentum (E) Fallow

Output: The answer index is C D A B E.

Input: Here is the listening history of a user: Flowers, Robin Guthrie, Carousell, Darla Records, Carousell, Int&#39;l & World Music, Pop, Alternative Rock, Electronica, International & Ethnic - General, Recorded Music - Rock & Pop, Rock & Pop - General />, Move Like This, 2011, 100 Days, 100 Nights. Based on this history, please rank the following candidate music: (A) Waiting for the Sirens Call (B) If 60s Were 90s (C) Blondie 4 0 Ever: Greatest Hits Deluxe Redux / Ghosts of Download **(D) Veronica Falls** (E) ROCKFERRY EUROPEAN A&M 2008

Output: The answer index is D A B C E.

- You are a music recommender system now.

Input: Here is the listening history of a user: Broken Bells, She & Him - Volume Two, April Uprising, Congratulations, You I Wind Land & Sea. Based on this history, please rank the following candidate music: (A) Thor (B) All Gas. No Brake. **(C) This Is Happening** (D) Momentum (E) Fallow

Output: The answer index is C D A B E.

Input: Here is the listening history of a user: Roadhouse Sun, Pink Flag, Yellow House, New Junk Aesthetic, Pneumonia. Based on this history, please rank the following candidate music: (A) Second Album + the First **(B) Beast Rest Forth Mouth** (C) Thirteenth Step (D) Tunnel Of Love (E) Meantime

Output: The answer index is B A C D E.

- You are a music recommender system now.

Input: Here is the listening history of a user: Broken Bells, She & Him - Volume Two, April Uprising, Congratulations, You I Wind Land & Sea. Based on this history, please rank the following candidate music: (A) Thor (B) All Gas. No Brake. **(C) This Is Happening** (D) Momentum (E) Fallow

Output: The answer index is C D A B E.

Input: Here is the listening history of a user: Golden Shower of Hits, EP's 1988 - 1991, I Don't Want to Grow Up, Allroy's Revenge, Terrible Certainty. Based on this history, please rank the following candidate music: (A) You and Me Both **(B) Adolescents** (C) Hypermagic Mountain (D) Parachutes (E) Generator

Output: The answer index is A B C D E.

- You are a music recommender system now.

Input: Here is the listening history of a user: Broken Bells, She & Him - Volume Two, April Uprising, Congratulations, You I Wind Land & Sea. Based on this history, please rank the following candidate music: (A) Thor (B)



All Gas. No Brake. (C) **This Is Happening** (D) Momentum (E) Fallow

Output: The answer index is C D A B E.

Input: Here is the listening history of a user: Live at The Fillmore Auditorium 10/15/66: Late Show: Signe's Farewell, Moonlight Sinatra, After Bathing at Baxter's, Let It Rock: Best of, Dedicated. Based on this history, please rank the following candidate music: (A) Quicksilver Messenger Service (B) Anything Goes (C) Getz/Gilberto #2 (D) **Live at The Fillmore Auditorium 10/16/66: Early & Late Shows: Grace's Debut** (E) Moonlight Serenade

Output: The answer index is A C D B E.

- You are a music recommender system now.

Input: Here is the listening history of a user: Broken Bells, She & Him - Volume Two, April Uprising, Congratulations, You I Wind Land & Sea. Based on this history, please rank the following candidate music: (A) Thor (B) All Gas. No Brake. (C) **This Is Happening** (D) Momentum (E) Fallow

Output: The answer index is C D A B E.

Input: Here is the listening history of a user: Little Creatures, Louder Than Bombs, Wipers, Green Remastered, New Adventures in Hi-Fi. Based on this history, please rank the following candidate music: (A) Ultra Lounge Vol. 11: Organs in Orbit (B) Cerulean (C) **Cocktail Capers: Ultra Lounge Vol. 8** (D) Whip It on (E) Remain in Light

Output: The answer index is B A D C E.

- You are a music recommender system now.

Input: Here is the listening history of a user: Broken Bells, She & Him - Volume Two, April Uprising, Congratulations, You I Wind Land & Sea. Based on this history, please rank the following candidate music: (A) Thor (B) All Gas. No Brake. (C) **This Is Happening** (D) Momentum (E) Fallow

Output: The answer index is C D A B E.

Input: Here is the listening history of a user: Comfort Woman, Miracles, The Best of Andrae, Still Warm, I Am. Based on this history, please rank the following candidate music: (A) He Had A Hat (B) Bringing It Back Home (C) Life's Aquarium (D) Musicology (E) **Oak Park: 921'06**

Output: The answer index is B A C D E.

#### A.3.4 News.

- You are a news recommender system now.

Input: Here is the reading history of a user: 'At 237 Lbs., I Was Embarrassed To Go To The Gym. So I Did An At-Home BeachBody Program And Lost 117 Lbs.', Should You Try the Controversial Cabbage Soup Diet? See What Experts Have to Say, How Much You Can Change Your Abs in 2 Weeks, It's Easy to Overdose on Acetaminophen and It Can Kill You, New Study Says, The keto diet is hard work but this hack makes it so much easier. Based on this history, please rank the following candidate news: (A) Lone Waffle House employee gets a helping hand from customers (B) Significant others (C) Russia Releases Norwegian, Lithuanians in Unusual Spy Swap (D) **Teresa Giudice Gives Advice to Lori Loughlin as She Faces Prison in College Admissions Scandal (Exclusive)** (E) Women's rugby teams join forces to move ambulance

Output: The answer index is D C A B E.

Input: Here is the reading history of a user: John Witherspoon Dies: Comedian & 'Friday' Star Was 77, Chick-fil-A Apologizes to Customers for Promoting National Sandwich Day Which Is on a Sunday, Trailer - Star Wars:

The Rise of Skywalker, 31 TV reboots, remakes, and spin-offs that are in the works, Luke DeCock: After Cole Anthony's spectacular UNC debut, he's not just talented. He's indispensable.. Based on this history, please rank the following candidate news: (A) 30 Best Black Friday Deals from Costco (B) Supporting your adult children can ruin your retirement plans (C) **Opinion: Colin Kaepernick is about to get what he deserves: a chance** (D) **Pete Davidson, Kaia Gerber Are Dating, Trying to Stay 'Low Profile'** (E) Report: Police investigating woman's death after Redskins' player Montae Nicholson took her to hospital

Output: The answer index is

C A B E D.

- You are a news recommender system now.

Input: Here is the reading history of a user: 'At 237 Lbs., I Was Embarrassed To Go To The Gym. So I Did An At-Home BeachBody Program And Lost 117 Lbs.', Should You Try the Controversial Cabbage Soup Diet? See What Experts Have to Say, How Much You Can Change Your Abs in 2 Weeks, It's Easy to Overdose on Acetaminophen and It Can Kill You, New Study Says, The keto diet is hard work but this hack makes it so much easier. Based on this history, please rank the following candidate news: (A) Lone Waffle House employee gets a helping hand from customers (B) Significant others (C) Russia Releases Norwegian, Lithuanians in Unusual Spy Swap (D) **Teresa Giudice Gives Advice to Lori Loughlin as She Faces Prison in College Admissions Scandal (Exclusive)** (E) Women's rugby teams join forces to move ambulance

Output: The answer index is D C A B E.

Input: Here is the reading history of a user: Jennifer Lopez Reacts to Lisa Rinna Dressing Up as Her for Halloween: 'She Looked Awesome', 2 brides lifted a 253-pound barbell together after exchanging vows to celebrate their marriage, Dolphins release former first-round pick Robert Nkemdiche; sign return specialist and tailback, Giancarlo Stanton wants Yankees to sign both Gerrit Cole, Stephen Strasburg, Team Breaks Record At Fiu's Annual Walk On Water Race. Based on this history, please rank the following candidate news: (A) **Boca Raton's Mizner Park jazzes up plaza with new restaurants, stores, bars and entertainment** (B) The Most Stunning Evening Gowns in Miss America History (C) THEN AND NOW: What all your favorite '90s stars are doing today (D) 35 of the Biggest Food Recalls in U.S. History (E) Apple bans vaping apps from the App Store

Output: The answer index is A C E D B.

- You are a news recommender system now.

Input: Here is the reading history of a user: 'At 237 Lbs., I Was Embarrassed To Go To The Gym. So I Did An At-Home BeachBody Program And Lost 117 Lbs.', Should You Try the Controversial Cabbage Soup Diet? See What Experts Have to Say, How Much You Can Change Your Abs in 2 Weeks, It's Easy to Overdose on Acetaminophen and It Can Kill You, New Study Says, The keto diet is hard work but this hack makes it so much easier. Based on this history, please rank the following candidate news: (A) Lone Waffle House employee gets a helping hand from customers (B) Significant others (C) Russia Releases Norwegian, Lithuanians in Unusual Spy Swap (D) **Teresa Giudice Gives Advice to Lori Loughlin as She Faces Prison in College Admissions Scandal (Exclusive)** (E) Women's rugby teams join forces to move ambulance

Output: The answer index is D C A B E.

Input: Here is the reading history of a user: Mayfield's postgame outfit gets all the memes, Jamie Lee Curtis Opens Up About Being 20 Years Sober, Going Public With Her Addiction, Firefighters Find a Diamond Ring in the Getty Fire Rubble, Nigerian police free 259 people from Islamic institution, Russian smuggling linked to 39



bodies found in truck in Britain. Based on this history, please rank the following candidate news: (A) The Real Reason McDonald's Keeps the Filet-O-Fish on Their Menu (B) There are 14 cheap days to fly left in 2019: When are they and what deals can you score? (C) Reaction to Myles Garrett ripping off Mason Rudolph's helmet and hitting him in the head with it on today's Lunch Break with Jay Crawford (D) **What Menopause Does to Women's Brains** (E) Impeachment inquiry: White House releases rough transcript of Trump's earlier call with Zelensky

Output: The answer index is A D C B E.

- You are a news recommender system now.

Input: Here is the reading history of a user: 'At 237 Lbs., I Was Embarrassed To Go To The Gym. So I Did An At-Home BeachBody Program And Lost 117 Lbs.', Should You Try the Controversial Cabbage Soup Diet? See What Experts Have to Say, How Much You Can Change Your Abs in 2 Weeks, It's Easy to Overdose on Acetaminophen and It Can Kill You, New Study Says, The keto diet is hard work but this hack makes it so much easier. Based on this history, please rank the following candidate news: (A) Lone Waffle House employee gets a helping hand from customers (B) Significant others (C) Russia Releases Norwegian, Lithuanians in Unusual Spy Swap (D) **Teresa Giudice Gives Advice to Lori Loughlin as She Faces Prison in College Admissions Scandal (Exclusive)** (E) Women's rugby teams join forces to move ambulance

Output: The answer index is D C A B E.

Input: Here is the reading history of a user: The One Food Men Should Eat Every Day, Monday night's win over the Giants emblematic of bigger issue for Cowboys, Rare deer spotted in Montana, Amari Cooper underwent MRI on knee, won't practice today, Woods made the right call keeping Reed in the U.S. fold. Based on this history, please rank the following candidate news: (A) **I Overate at Dinner Until I Started Doing This 1 Simple Thing on Sundays (It Takes 10 Minutes!)** (B) Intimidation among key takeaways from the Trump impeachment hearing with Marie Yovanovitch (C) Maze of tunnels reveals remains of ancient Jerusalem (D) 66 Cool Tech Gifts Anyone Would Be Thrilled to Receive (E) Kate Middleton Took Public Transit to Her Royal Engagement Today

Output: The answer index is C B A D E.

- You are a news recommender system now.

Input: Here is the reading history of a user: 'At 237 Lbs., I Was Embarrassed To Go To The Gym. So I Did An At-Home BeachBody Program And Lost 117 Lbs.', Should You Try the Controversial Cabbage Soup Diet? See What Experts Have to Say, How Much You Can Change Your Abs in 2 Weeks, It's Easy to Overdose on Acetaminophen and It Can Kill You, New Study Says, The keto diet is hard work but this hack makes it so much easier. Based on this history, please rank the following candidate news: (A) Lone Waffle House employee gets a helping hand from customers (B) Significant others (C) Russia Releases Norwegian, Lithuanians in Unusual Spy Swap (D) **Teresa Giudice Gives Advice to Lori Loughlin as She Faces Prison in College Admissions Scandal (Exclusive)** (E) Women's rugby teams join forces to move ambulance

Output: The answer index is D C A B E.

Input: Here is the reading history of a user: What Tom Brady, Lamar Jackson Told Each Other After Patriots-Ravens, Why You Should Always Order Ginger Ale on a Flight, Here Are the Biggest Deals We're Anticipating for Black Friday, Cracker Barrel Has Two Thanksgiving Options This Year, and They Both Sound Delicious, Winners, losers from Cowboys' win over Giants on 'Monday Night Football'. Based on this history, please rank the following candidate news: (A) Opinion: Baylor football back on top four years after sexual assault scandal

rocked campus **(B) 30 Best Black Friday Deals from Costco** (C) Apple bans vaping apps from the App Store (D) Supporting your adult children can ruin your retirement plans (E) Meet Narwhal the Magical Unicorn Puppy  
Output: The answer index is **C D A B E**.

- You are a news recommender system now.

Input: Here is the reading history of a user: 'At 237 Lbs., I Was Embarrassed To Go To The Gym. So I Did An At-Home BeachBody Program And Lost 117 Lbs.', Should You Try the Controversial Cabbage Soup Diet? See What Experts Have to Say, How Much You Can Change Your Abs in 2 Weeks, It's Easy to Overdose on Acetaminophen and It Can Kill You, New Study Says, The keto diet is hard work but this hack makes it so much easier. Based on this history, please rank the following candidate news: (A) Lone Waffle House employee gets a helping hand from customers (B) Significant others (C) Russia Releases Norwegian, Lithuanians in Unusual Spy Swap **(D) Teresa Giudice Gives Advice to Lori Loughlin as She Faces Prison in College Admissions Scandal (Exclusive)** (E) Women's rugby teams join forces to move ambulance

Output: The answer index is **D C A B E**.

Input: Here is the reading history of a user: Netflix is ending support for old devices from Samsung, Roku, and Vizio in December, State Trooper Stops Banana Car Driver, Gives Him \$20 Instead of a Ticket, Pro disqualified from Q-School for failing to sign scorecard, This \$12 million 'mansion yacht' is made entirely of stainless steel and it's a first for the industry. Take a peek inside., This Record-Breaking 1800-HP Land Speed Car Is Coming up for Sale. Based on this history, please rank the following candidate news: (A) Meghan Markle and Hillary Clinton Secretly Spent the Afternoon Together at Frogmore Cottage (B) Bold predictions for Week 12 in college football (C) Survivor Contestants Missy Byrd and Elizabeth Beisel Apologize For Their Actions (D) Surviving Santa Clarita school shooting victims on road to recovery: Latest **(E) Camille Grammer Accuses Ex-Husband Kelsey Grammer of 'Rewriting History'**

Output: The answer index is **D C A B E**.

#### A.4 text-davinci-003 with pointwise

##### A.4.1 Movie.

- You are a movie recommender system now.

Input: Here is the watching history of a user: Gattaca, Armageddon, Big, Babes in Toyland, Gladiator. Based on this history, please predict the user's rating for the following item: Nikita (1 being lowest and 5 being highest)  
Output: 1.

Input: Here is the watching history of a user: The Virgin Suicides, Goya in Bordeaux, Snow Falling on Cedars, Gladiator, Hamlet. Based on this history, please predict the user's rating for the following item: The Last September (1 being lowest and 5 being highest)

Output: 5.

Input: Here is the watching history of a user: The Bridge on the River Kwai, Casablanca, Citizen Kane, The Third Man, The Grapes of Wrath. Based on this history, please predict the user's rating for the following item: The Wizard of Oz (1 being lowest and 5 being highest)

Output: 5.

- You are a movie recommender system now.

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Input: Here is the watching history of a user: Gattaca, Armageddon, Big, Babes in Toyland, Gladiator. Based on this history, please predict the user's rating for the following item: Nikita (1 being lowest and 5 being highest)

Output: 1.

Input: Here is the watching history of a user: The Virgin Suicides, Goya in Bordeaux, Snow Falling on Cedars, Gladiator, Hamlet. Based on this history, please predict the user's rating for the following item: The Last September (1 being lowest and 5 being highest)

Output: 5.

Input: Here is the watching history of a user: Alien, Rocky II, Death Wish, The Towering Inferno, Shaft. Based on this history, please predict the user's rating for the following item: The Godfather: Part II (1 being lowest and 5 being highest)

Output: 5.

- You are a movie recommender system now.

Input: Here is the watching history of a user: Gattaca, Armageddon, Big, Babes in Toyland, Gladiator. Based on this history, please predict the user's rating for the following item: Nikita (1 being lowest and 5 being highest)

Output: 1.

Input: Here is the watching history of a user: The Virgin Suicides, Goya in Bordeaux, Snow Falling on Cedars, Gladiator, Hamlet. Based on this history, please predict the user's rating for the following item: The Last September (1 being lowest and 5 being highest)

Output: 5.

Input: Here is the watching history of a user: Mrs. Doubtfire, Mr. Saturday Night, The Twelve Chairs, Nothing in Common, Aladdin and the King of Thieves. Based on this history, please predict the user's rating for the following item: Funny Farm (1 being lowest and 5 being highest)

Output: 4.

- You are a movie recommender system now.

Input: Here is the watching history of a user: Gattaca, Armageddon, Big, Babes in Toyland, Gladiator. Based on this history, please predict the user's rating for the following item: Nikita (1 being lowest and 5 being highest)

Output: 1.

Input: Here is the watching history of a user: The Virgin Suicides, Goya in Bordeaux, Snow Falling on Cedars, Gladiator, Hamlet. Based on this history, please predict the user's rating for the following item: The Last September (1 being lowest and 5 being highest)

Output: 5.

Input: Here is the watching history of a user: Mrs. Doubtfire, Mr. Saturday Night, The Twelve Chairs, Nothing in Common, Aladdin and the King of Thieves. Based on this history, please predict the user's rating for the following item: Police Academy 5: Assignment: Miami Beach (1 being lowest and 5 being highest)

Output: 3.

- You are a movie recommender system now.

Input: Here is the watching history of a user: Gattaca, Armageddon, Big, Babes in Toyland, Gladiator. Based on this history, please predict the user's rating for the following item: Nikita (1 being lowest and 5 being highest)

Output: 1.

Input: Here is the watching history of a user: The Virgin Suicides, Goya in Bordeaux, Snow Falling on Cedars, Gladiator, Hamlet. Based on this history, please predict the user's rating for the following item: The Last

2029 September (1 being lowest and 5 being highest)

2030 Output: 5.

2031 Input: Here is the watching history of a user: The Wrong Trousers, Cyrano de Bergerac, Like Water for Chocolate,

2032 Strictly Ballroom, Amadeus. Based on this history, please predict the user's rating for the following item: Friday

2033 the 13th Part VI: Jason Lives (1 being lowest and 5 being highest)

2034

2035 Output: 1.

2036 • You are a movie recommender system now.

2037

2038 Input: Here is the watching history of a user: Gattaca, Armageddon, Big, Babes in Toyland, Gladiator. Based on

2039 this history, please predict the user's rating for the following item: Nikita (1 being lowest and 5 being highest)

2040 Output: 1.

2041 Input: Here is the watching history of a user: The Virgin Suicides, Goya in Bordeaux, Snow Falling on Cedars,

2042 Gladiator, Hamlet. Based on this history, please predict the user's rating for the following item: The Last

2043 September (1 being lowest and 5 being highest)

2044

2045 Output: 5.

2046 Input: Here is the watching history of a user: North by Northwest, Notorious, Terminator 2: Judgment Day,

2047 Willy Wonka and the Chocolate Factory, E.T. the Extra-Terrestrial. Based on this history, please predict the

2048 user's rating for the following item: Iron Eagle II (1 being lowest and 5 being highest)

2049

2050 Output: 1.

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2053 A.4.2 Book.

2054

2055 • You are a book recommender system now.

2056 Input: Here is the reading history of a user: Dress Your Family in Corduroy and Denim, My Age of Anxiety: Fear,

2057 Hope, Dread, and the Search for Peace of Mind, Knuffle Bunny: A Cautionary Tale, Don't Let The Pigeon Drive

2058 The Bus!, Purplicious (Pinkalicious). Based on this history, please predict the user's rating for the following

2059 item: The Particular Sadness of Lemon Cake: A Novel (1 being lowest and 5 being highest)

2060

2061 Output: 1.

2062 Input: Here is the reading history of a user: Hostile Witness, Snake Skin, Solomon vs. Lord, Tough Cookie, The

2063 Black Bullet (Sean O'Brien Mystery/Thriller). Based on this history, please predict the user's rating for the

2064 following item: Blood Land (1 being lowest and 5 being highest)

2065

2066 Output: 5.

2067 Input: Here is the reading history of a user: The Hangman's Daughter, The Perfume Collector: A Novel, Tobacco

2068 Road, The Blackhouse: A Novel, Bad Monkey. Based on this history, please predict the user's rating for the

2069 following item: Gone Girl (1 being lowest and 5 being highest)

2070

2071 Output: 5.

2072 • You are a book recommender system now.

2073

2074 Input: Here is the reading history of a user: Dress Your Family in Corduroy and Denim, My Age of Anxiety: Fear,

2075 Hope, Dread, and the Search for Peace of Mind, Knuffle Bunny: A Cautionary Tale, Don't Let The Pigeon Drive

2076 The Bus!, Purplicious (Pinkalicious). Based on this history, please predict the user's rating for the following

2077 item: The Particular Sadness of Lemon Cake: A Novel (1 being lowest and 5 being highest)

2078

2079 Output: 1.

2080

Input: Here is the reading history of a user: Hostile Witness, Snake Skin, Solomon vs. Lord, Tough Cookie, The Black Bullet (Sean O'Brien Mystery/Thriller). Based on this history, please predict the user's rating for the following item: Blood Land (1 being lowest and 5 being highest)

Output: 5.

Input: Here is the reading history of a user: Flowers for Algernon, Five Days at Memorial: Life and Death in a Storm-Ravaged Hospital, Hollow City (Miss Peregrine's Peculiar Children), The Winter People: A Novel, The Ocean at the End of the Lane: A Novel. Based on this history, please predict the user's rating for the following item: Monkey Mind: A Memoir of Anxiety (1 being lowest and 5 being highest)

Output: 5.

- You are a book recommender system now.

Input: Here is the reading history of a user: Dress Your Family in Corduroy and Denim, My Age of Anxiety: Fear, Hope, Dread, and the Search for Peace of Mind, Knuffle Bunny: A Cautionary Tale, Don't Let The Pigeon Drive The Bus!, Purplicious (Pinkalicious). Based on this history, please predict the user's rating for the following item: The Particular Sadness of Lemon Cake: A Novel (1 being lowest and 5 being highest)

Output: 1.

Input: Here is the reading history of a user: Hostile Witness, Snake Skin, Solomon vs. Lord, Tough Cookie, The Black Bullet (Sean O'Brien Mystery/Thriller). Based on this history, please predict the user's rating for the following item: Blood Land (1 being lowest and 5 being highest)

Output: 5.

Input: Here is the reading history of a user: Heft: A Novel, Knocking on Heaven's Door: The Path to a Better Way of Death, How to Fail at Almost Everything and Still Win Big: Kind of the Story of My Life, Hatching Twitter: A True Story of Money, Power, Friendship, and Betrayal, Flash Boys. Based on this history, please predict the user's rating for the following item: The Bat (1 being lowest and 5 being highest)

Output: 4.

- You are a book recommender system now.

Input: Here is the reading history of a user: Dress Your Family in Corduroy and Denim, My Age of Anxiety: Fear, Hope, Dread, and the Search for Peace of Mind, Knuffle Bunny: A Cautionary Tale, Don't Let The Pigeon Drive The Bus!, Purplicious (Pinkalicious). Based on this history, please predict the user's rating for the following item: The Particular Sadness of Lemon Cake: A Novel (1 being lowest and 5 being highest)

Output: 1.

Input: Here is the reading history of a user: Hostile Witness, Snake Skin, Solomon vs. Lord, Tough Cookie, The Black Bullet (Sean O'Brien Mystery/Thriller). Based on this history, please predict the user's rating for the following item: Blood Land (1 being lowest and 5 being highest)

Output: 5.

Input: Here is the reading history of a user: The God Delusion, Three Cups of Tea, God Is Not Great: How Religion Poisons Everything, The Given Day LP: A Novel, Dauntless (The Lost Fleet, Book 1). Based on this history, please predict the user's rating for the following item: Heaven is for Real Movie Edition: A Little Boy's Astounding Story of His Trip to Heaven and Back (1 being lowest and 5 being highest)

Output: 3.

- You are a book recommender system now.

Input: Here is the reading history of a user: Dress Your Family in Corduroy and Denim, My Age of Anxiety: Fear, Hope, Dread, and the Search for Peace of Mind, Knuffle Bunny: A Cautionary Tale, Don't Let The Pigeon Drive The Bus!, Purplicious (Pinkalicious). Based on this history, please predict the user's rating for the following item: The Particular Sadness of Lemon Cake: A Novel (1 being lowest and 5 being highest)

Output: 1.

Input: Here is the reading history of a user: Hostile Witness, Snake Skin, Solomon vs. Lord, Tough Cookie, The Black Bullet (Sean O'Brien Mystery/Thriller). Based on this history, please predict the user's rating for the following item: Blood Land (1 being lowest and 5 being highest)

Output: 5.

Input: Here is the reading history of a user: Choke, Foundation, Foundation and Empire, Second Foundation (Everyman's Library (Cloth)), A Game of Thrones: A Song of Ice and Fire: Book One, Bag of Bones, The Lost City of Z: A Tale of Deadly Obsession in the Amazon. Based on this history, please predict the user's rating for the following item: Be the Pack Leader: Use Cesar's Way to Transform Your Dog . . . and Your Life (1 being lowest and 5 being highest)

Output: 1.

- You are a book recommender system now.

Input: Here is the reading history of a user: Dress Your Family in Corduroy and Denim, My Age of Anxiety: Fear, Hope, Dread, and the Search for Peace of Mind, Knuffle Bunny: A Cautionary Tale, Don't Let The Pigeon Drive The Bus!, Purplicious (Pinkalicious). Based on this history, please predict the user's rating for the following item: The Particular Sadness of Lemon Cake: A Novel (1 being lowest and 5 being highest)

Output: 1.

Input: Here is the reading history of a user: Hostile Witness, Snake Skin, Solomon vs. Lord, Tough Cookie, The Black Bullet (Sean O'Brien Mystery/Thriller). Based on this history, please predict the user's rating for the following item: Blood Land (1 being lowest and 5 being highest)

Output: 5.

Input: Here is the reading history of a user: From a Buick 8, 'Salem's Lot, Sidney Sheldon's The Tides of Memory, The Shining, Doctor Sleep: A Novel. Based on this history, please predict the user's rating for the following item: Kris Jenner . . . And All Things Kardashian (1 being lowest and 5 being highest)

Output: 1.

#### A.4.3 Music.

- You are a music recommender system now.

Input: Here is the listening history of a user: Broken Bells, She & Him - Volume Two, April Uprising, Congratulations, You I Wind Land & Sea. Based on this history, please predict the user's rating for the following item: All Gas. No Brake. (1 being lowest and 5 being highest)

Output: 1.

Input: Here is the listening history of a user: Big Willie Style, Precious, Stan Getz With Laurindo Almeida, Power Clown, Serve Chilled. Based on this history, please predict the user's rating for the following item: C&eacutetu (1 being lowest and 5 being highest)

Output: 5.

Input: Here is the listening history of a user: Our Favorite Songs, Beethoven: Complete Cello Sonatas / Variations on Themes from Die Zauberflöte Casals Edition, Igor Stravinsky: The Rite of Spring / Alexander Scriabin: The Poem of Ecstasy, Brahms: Violin Concerto / Mozart: Sinfonia Concertante, Mozart: Great Mass in C minor, K. 427; Exultate, jubilate, K. 165; Ave verum corpus, K. 618. Based on this history, please predict the user's rating for the following item: Mahler: Symphony No. 6 (1 being lowest and 5 being highest)

Output: 5.

- You are a music recommender system now.

Input: Here is the listening history of a user: Broken Bells, She & Him - Volume Two, April Uprising, Congratulations, You I Wind Land & Sea. Based on this history, please predict the user's rating for the following item: All Gas. No Brake. (1 being lowest and 5 being highest)

Output: 1.

Input: Here is the listening history of a user: Big Willie Style, Precious, Stan Getz With Laurindo Almeida, Power Clown, Serve Chilled. Based on this history, please predict the user's rating for the following item: C&eacute;u (1 being lowest and 5 being highest)

Output: 5.

Input: Here is the listening history of a user: Our Favorite Songs, Beethoven: Complete Cello Sonatas / Variations on Themes from Die Zauberflöte Casals Edition, Igor Stravinsky: The Rite of Spring / Alexander Scriabin: The Poem of Ecstasy, Brahms: Violin Concerto / Mozart: Sinfonia Concertante, Mozart: Great Mass in C minor, K. 427; Exultate, jubilate, K. 165; Ave verum corpus, K. 618. Based on this history, please predict the user's rating for the following item: Chopin: 4 Ballades, 4 Scherzi / Ashkenazy (1 being lowest and 5 being highest)

Output: 5.

- You are a music recommender system now.

Input: Here is the listening history of a user: Broken Bells, She & Him - Volume Two, April Uprising, Congratulations, You I Wind Land & Sea. Based on this history, please predict the user's rating for the following item: All Gas. No Brake. (1 being lowest and 5 being highest)

Output: 1.

Input: Here is the listening history of a user: Big Willie Style, Precious, Stan Getz With Laurindo Almeida, Power Clown, Serve Chilled. Based on this history, please predict the user's rating for the following item: C&eacute;u (1 being lowest and 5 being highest)

Output: 5.

Input: Here is the listening history of a user: New Miserable Experience, We Were Dead Before The Ship Even Sank, Stadium Arcadium, Dirt Farmer, April. Based on this history, please predict the user's rating for the following item: Off the Ground (1 being lowest and 5 being highest)

Output: 4.

- You are a music recommender system now.

Input: Here is the listening history of a user: Broken Bells, She & Him - Volume Two, April Uprising, Congratulations, You I Wind Land & Sea. Based on this history, please predict the user's rating for the following item: All Gas. No Brake. (1 being lowest and 5 being highest)

Output: 1.

Input: Here is the listening history of a user: Big Willie Style, Precious, Stan Getz With Laurindo Almeida, Power Clown, Serve Chilled. Based on this history, please predict the user's rating for the following item: C&eacute;u



2237 (1 being lowest and 5 being highest)

2238 Output: 5.

2239 Input: Here is the listening history of a user: Takk, Tommy James and the Shondells Anthology, James Gang -

2240 Greatest Hits, Dragon Fly, Four Cornered Night. Based on this history, please predict the user's rating for the

2241 following item: Voodoo (1 being lowest and 5 being highest)

2242 Output: 3.

2243

2244 • You are a music recommender system now.

2245

2246 Input: Here is the listening history of a user: Broken Bells, She & Him - Volume Two, April Uprising, Congratu-

2247 lations, You I Wind Land & Sea. Based on this history, please predict the user's rating for the following item: All

2248 Gas. No Brake. (1 being lowest and 5 being highest)

2249 Output: 1.

2250

2251 Input: Here is the listening history of a user: Big Willie Style, Precious, Stan Getz With Laurindo Almeida, Power

2252 Clown, Serve Chilled. Based on this history, please predict the user's rating for the following item: C&eacute;u

2253 (1 being lowest and 5 being highest)

2254 Output: 5.

2255

2256 Input: Here is the listening history of a user: Thrak, Ege Bamyasi, Dopes to Infinity, Future Days, Daydream

2257 Nation. Based on this history, please predict the user's rating for the following item: Totally Hits 2004, Vol. 2 (1

2258 being lowest and 5 being highest)

2259 Output: 1.

2260

2261 • You are a music recommender system now.

2262

2263 Input: Here is the listening history of a user: Broken Bells, She & Him - Volume Two, April Uprising, Congratu-

2264 lations, You I Wind Land & Sea. Based on this history, please predict the user's rating for the following item: All

2265 Gas. No Brake. (1 being lowest and 5 being highest)

2266 Output: 1.

2267

2268 Input: Here is the listening history of a user: Big Willie Style, Precious, Stan Getz With Laurindo Almeida, Power

2269 Clown, Serve Chilled. Based on this history, please predict the user's rating for the following item: C&eacute;u

2270 (1 being lowest and 5 being highest)

2271 Output: 5.

2272

2273 Input: Here is the listening history of a user: Andrea Bocelli, My Christmas, Verve, Classical Music, Holiday, Holiday

2274 Music, Miscellaneous / Holiday, Vocals, Christmas / Chanukkah />, The Most Happy Fella 2000 Studio Cast, 1776

2275 1969 Original Broadway Cast, On The Twentieth Century 1978 Original Broadway Cast, Downton Abbey: The

2276 Essential Collection. Based on this history, please predict the user's rating for the following item: Goes to Rehab

2277 (1 being lowest and 5 being highest)

2278 Output: 1.

2279

2280 A.4.4 News.

2281

2282 • You are a news recommender system now.

2283

2284 Input: Here is the reading history of a user: 'At 237 Lbs., I Was Embarrassed To Go To The Gym. So I Did

2285 An At-Home BeachBody Program And Lost 117 Lbs.', Should You Try the Controversial Cabbage Soup Diet?

2286 See What Experts Have to Say, How Much You Can Change Your Abs in 2 Weeks, It's Easy to Overdose on

2287 Acetaminophen and It Can Kill You, New Study Says, The keto diet is hard work but this hack makes it so

2288



much easier. Based on this history, please predict the user's rating for the following item: Lone Waffle House employee gets a helping hand from customers (1 being lowest and 5 being highest)

Output: 1.

Input: Here is the reading history of a user: How to Avoid Airbnb Scams and Find Legit Vacation Rentals Online, Watch: 'The View' Versus Donald Trump Jr.: Loud, Low Blows, Politics, Scandals And Great TV, Pete the Planner: Could a retiree outlive their savings even with a part time job? Possibly., Jim Edmonds Calls Police on Meghan King Edmonds Out of "Concern" For Their Kids, Henry Golding assumed costar Matthew McConaughey 'hated' him the first time they met on set: 'My world just imploded'. Based on this history, please predict the user's rating for the following item: Stephanie Parze's Car Is at Home. So Is Her Phone. But She's Missing. (1 being lowest and 5 being highest)

Output: 5.

Input: Here is the reading history of a user: Oprah Winfrey Just Bought Jeff Bridges' Ranch in Montecito, Girlfriend testifies at trial of man in death of his fiancée, One of FBI's Most Wanted fugitives offers surrender, Dog Throws A Total Tantrum When She Realizes Mom Wants To Take The Stairs, A body-language expert says Meghan Markle is "politely disconnecting" from the public, and honestly, we would too. Based on this history, please predict the user's rating for the following item: Watch These Two Love Birds Perform a Heart-Shaped Swan Dance (1 being lowest and 5 being highest)

Output: 5.

- You are a news recommender system now.

Input: Here is the reading history of a user: 'At 237 Lbs., I Was Embarrassed To Go To The Gym. So I Did An At-Home BeachBody Program And Lost 117 Lbs.', Should You Try the Controversial Cabbage Soup Diet? See What Experts Have to Say, How Much You Can Change Your Abs in 2 Weeks, It's Easy to Overdose on Acetaminophen and It Can Kill You, New Study Says, The keto diet is hard work but this hack makes it so much easier. Based on this history, please predict the user's rating for the following item: Lone Waffle House employee gets a helping hand from customers (1 being lowest and 5 being highest)

Output: 1.

Input: Here is the reading history of a user: How to Avoid Airbnb Scams and Find Legit Vacation Rentals Online, Watch: 'The View' Versus Donald Trump Jr.: Loud, Low Blows, Politics, Scandals And Great TV, Pete the Planner: Could a retiree outlive their savings even with a part time job? Possibly., Jim Edmonds Calls Police on Meghan King Edmonds Out of "Concern" For Their Kids, Henry Golding assumed costar Matthew McConaughey 'hated' him the first time they met on set: 'My world just imploded'. Based on this history, please predict the user's rating for the following item: Stephanie Parze's Car Is at Home. So Is Her Phone. But She's Missing. (1 being lowest and 5 being highest)

Output: 5.

Input: Here is the reading history of a user: Oprah Winfrey Just Bought Jeff Bridges' Ranch in Montecito, Girlfriend testifies at trial of man in death of his fiancée, One of FBI's Most Wanted fugitives offers surrender, Dog Throws A Total Tantrum When She Realizes Mom Wants To Take The Stairs, A body-language expert says Meghan Markle is "politely disconnecting" from the public, and honestly, we would too. Based on this history, please predict the user's rating for the following item: GoFundMe Honors Good Samaritans at First Heroes Celebration: 'Amazing Things Are Happening' (1 being lowest and 5 being highest)

Output: 5.

- You are a news recommender system now.

Input: Here is the reading history of a user: 'At 237 Lbs., I Was Embarrassed To Go To The Gym. So I Did An At-Home BeachBody Program And Lost 117 Lbs.', Should You Try the Controversial Cabbage Soup Diet? See What Experts Have to Say, How Much You Can Change Your Abs in 2 Weeks, It's Easy to Overdose on Acetaminophen and It Can Kill You, New Study Says, The keto diet is hard work but this hack makes it so much easier. Based on this history, please predict the user's rating for the following item: Lone Waffle House employee gets a helping hand from customers (1 being lowest and 5 being highest)

Output: 1.

Input: Here is the reading history of a user: How to Avoid Airbnb Scams and Find Legit Vacation Rentals Online, Watch: 'The View' Versus Donald Trump Jr.: Loud, Low Blows, Politics, Scandals And Great TV, Pete the Planner: Could a retiree outlive their savings even with a part time job? Possibly., Jim Edmonds Calls Police on Meghan King Edmonds Out of "Concern" For Their Kids, Henry Golding assumed costar Matthew McConaughey 'hated' him the first time they met on set: 'My world just imploded'. Based on this history, please predict the user's rating for the following item: Stephanie Parze's Car Is at Home. So Is Her Phone. But She's Missing. (1 being lowest and 5 being highest)

Output: 5.

Input: Here is the reading history of a user: Chinese pilot suspended after woman poses in cockpit with drinks, The 8 things you should never do in a fast-food restaurant, according to former employees, Pentagon leader appeals to Trump to allow military justice cases to proceed unfettered, Kristen Stewart Just Made Leather Bras a Thing, and We're All For It, Impeachment Inquiry Tests Ties Between Barr and Trump. Based on this history, please predict the user's rating for the following item: 30 Best Black Friday Deals from Costco (1 being lowest and 5 being highest)

Output: 4.

- You are a news recommender system now.

Input: Here is the reading history of a user: 'At 237 Lbs., I Was Embarrassed To Go To The Gym. So I Did An At-Home BeachBody Program And Lost 117 Lbs.', Should You Try the Controversial Cabbage Soup Diet? See What Experts Have to Say, How Much You Can Change Your Abs in 2 Weeks, It's Easy to Overdose on Acetaminophen and It Can Kill You, New Study Says, The keto diet is hard work but this hack makes it so much easier. Based on this history, please predict the user's rating for the following item: Lone Waffle House employee gets a helping hand from customers (1 being lowest and 5 being highest)

Output: 1.

Input: Here is the reading history of a user: How to Avoid Airbnb Scams and Find Legit Vacation Rentals Online, Watch: 'The View' Versus Donald Trump Jr.: Loud, Low Blows, Politics, Scandals And Great TV, Pete the Planner: Could a retiree outlive their savings even with a part time job? Possibly., Jim Edmonds Calls Police on Meghan King Edmonds Out of "Concern" For Their Kids, Henry Golding assumed costar Matthew McConaughey 'hated' him the first time they met on set: 'My world just imploded'. Based on this history, please predict the user's rating for the following item: Stephanie Parze's Car Is at Home. So Is Her Phone. But She's Missing. (1 being lowest and 5 being highest)

Output: 5.

Input: Here is the reading history of a user: Impeachment haunts the campaign trail as candidates compete against the bigger story, Alaska mine could generate \$1 billion a year: Is it worth the risk to salmon?, Trump

Taxes: Appeals Court Rules President Must Turn Over 8 Years of Tax Returns, Buffett has \$128 billion in cash, and analysts can't figure out why he isn't spending it, The Justice Department is fishing for details about the anonymous 'resistance' op-ed writer. Based on this history, please predict the user's rating for the following item: AirFly Pro can stream Bluetooth audio to and from any 3.5mm jack (1 being lowest and 5 being highest)  
Output: 3.

- You are a news recommender system now.

Input: Here is the reading history of a user: 'At 237 Lbs., I Was Embarrassed To Go To The Gym. So I Did An At-Home BeachBody Program And Lost 117 Lbs.', Should You Try the Controversial Cabbage Soup Diet? See What Experts Have to Say, How Much You Can Change Your Abs in 2 Weeks, It's Easy to Overdose on Acetaminophen and It Can Kill You, New Study Says, The keto diet is hard work but this hack makes it so much easier. Based on this history, please predict the user's rating for the following item: Lone Waffle House employee gets a helping hand from customers (1 being lowest and 5 being highest)

Output: 1.

Input: Here is the reading history of a user: How to Avoid Airbnb Scams and Find Legit Vacation Rentals Online, Watch: 'The View' Versus Donald Trump Jr.: Loud, Low Blows, Politics, Scandals And Great TV, Pete the Planner: Could a retiree outlive their savings even with a part time job? Possibly., Jim Edmonds Calls Police on Meghan King Edmonds Out of "Concern" For Their Kids, Henry Golding assumed costar Matthew McConaughey 'hated' him the first time they met on set: 'My world just imploded'. Based on this history, please predict the user's rating for the following item: Stephanie Parze's Car Is at Home. So Is Her Phone. But She's Missing. (1 being lowest and 5 being highest)

Output: 5.

Input: Here is the reading history of a user: Kevin Spacey Won't Be Charged in Sexual Assault Case After Accuser Dies, Ian Ziering's Wife Erin Ludwig Files for Divorce Days After Split Announcement, A wave crashed over a couple during their beach wedding photo shoot, and now the stunning picture is going viral, Jessica Simpson's latest Birdie Mae post suggests she's done having kids, plus more news, Kate & Meghan Head to Separate Events in Gorgeous Blue Outfits. Based on this history, please predict the user's rating for the following item: How much turkey do you need to buy per person? (1 being lowest and 5 being highest)

Output: 1.

- You are a news recommender system now.

Input: Here is the reading history of a user: 'At 237 Lbs., I Was Embarrassed To Go To The Gym. So I Did An At-Home BeachBody Program And Lost 117 Lbs.', Should You Try the Controversial Cabbage Soup Diet? See What Experts Have to Say, How Much You Can Change Your Abs in 2 Weeks, It's Easy to Overdose on Acetaminophen and It Can Kill You, New Study Says, The keto diet is hard work but this hack makes it so much easier. Based on this history, please predict the user's rating for the following item: Lone Waffle House employee gets a helping hand from customers (1 being lowest and 5 being highest)

Output: 1.

Input: Here is the reading history of a user: How to Avoid Airbnb Scams and Find Legit Vacation Rentals Online, Watch: 'The View' Versus Donald Trump Jr.: Loud, Low Blows, Politics, Scandals And Great TV, Pete the Planner: Could a retiree outlive their savings even with a part time job? Possibly., Jim Edmonds Calls Police on Meghan King Edmonds Out of "Concern" For Their Kids, Henry Golding assumed costar Matthew McConaughey 'hated' him the first time they met on set: 'My world just imploded'. Based on this history, please predict the user's

rating for the following item: Stephanie Parze's Car Is at Home. So Is Her Phone. But She's Missing. (1 being lowest and 5 being highest)

Output: 5.

Input: Here is the reading history of a user: Chinese pilot suspended after woman poses in cockpit with drinks, The 8 things you should never do in a fast-food restaurant, according to former employees, Pentagon leader appeals to Trump to allow military justice cases to proceed unfettered, Kristen Stewart Just Made Leather Bras a Thing, and We're All For It, Impeachment Inquiry Tests Ties Between Barr and Trump. Based on this history, please predict the user's rating for the following item: Holiday's 36 points push Pelicans past Clippers 132-127 (1 being lowest and 5 being highest)

Output: 1.

## A.5 text-davinci-003 with pairwise

### A.5.1 Movie.

- You are a movie recommender system now.

Input: Here is the watching history of a user: Gattaca, Armageddon, Big, Babes in Toyland, Gladiator. Based on this history, would this user prefer Donnie Brasco or Con Air? Answer Choices: (A) **Donnie Brasco** (B) Con Air

Output: The answer index is A.

Input: Here is the watching history of a user: White Christmas, West Side Story, The Blues Brothers, All That Jazz, Gigi. Based on this history, would this user prefer Victor/Victoria or Bulworth? Answer Choices: (A) **Victor/Victoria** (B) Bulworth

Output: The answer index is A.

- You are a movie recommender system now.

Input: Here is the watching history of a user: Gattaca, Armageddon, Big, Babes in Toyland, Gladiator. Based on this history, would this user prefer Donnie Brasco or Con Air? Answer Choices: (A) **Donnie Brasco** (B) Con Air

Output: The answer index is A.

Input: Here is the watching history of a user: White Christmas, West Side Story, The Blues Brothers, All That Jazz, Gigi. Based on this history, would this user prefer Monty Python's Life of Brian or Victor/Victoria? Answer Choices: (A) Monty Python's Life of Brian (B) **Victor/Victoria**

Output: The answer index is B.

- You are a movie recommender system now.

Input: Here is the watching history of a user: Gattaca, Armageddon, Big, Babes in Toyland, Gladiator. Based on this history, would this user prefer Donnie Brasco or Con Air? Answer Choices: (A) **Donnie Brasco** (B) Con Air

Output: The answer index is A.

Input: Here is the watching history of a user: The Adventures of Milo and Otis, The Pelican Brief, Dinosaur, Air Force One, The First Wives Club. Based on this history, would this user prefer The Good Bad and The Ugly or George of the Jungle? Answer Choices: (A) The Good Bad and The Ugly (B) **George of the Jungle**

Output: The answer index is B.

- You are a movie recommender system now.

Input: Here is the watching history of a user: Gattaca, Armageddon, Big, Babes in Toyland, Gladiator. Based on this history, would this user prefer Donnie Brasco or Con Air? Answer Choices: (A) **Donnie Brasco** (B) Con Air

Output: The answer index is A.

Input: Here is the watching history of a user: The Adventures of Milo and Otis, The Pelican Brief, Dinosaur, Air Force One, The First Wives Club. Based on this history, would this user prefer George of the Jungle or Tom and Huck? Answer Choices: (A) **George of the Jungle** (B) Tom and Huck

Output: The answer index is B.

- You are a movie recommender system now.

Input: Here is the watching history of a user: Gattaca, Armageddon, Big, Babes in Toyland, Gladiator. Based on this history, would this user prefer Donnie Brasco or Con Air? Answer Choices: (A) **Donnie Brasco** (B) Con Air

Output: The answer index is A.

Input: Here is the watching history of a user: Ben-Hur, In the Line of Fire, Seven Samurai, The Wrong Trousers, Groundhog Day. Based on this history, would this user prefer Bob Roberts or Heathers? Answer Choices: (A) **Bob Roberts** (B) Heathers

Output: The answer index is B.

- You are a movie recommender system now.

Input: Here is the watching history of a user: Gattaca, Armageddon, Big, Babes in Toyland, Gladiator. Based on this history, would this user prefer Donnie Brasco or Con Air? Answer Choices: (A) **Donnie Brasco** (B) Con Air

Output: The answer index is A.

Input: Here is the watching history of a user: Ben-Hur, In the Line of Fire, Seven Samurai, The Wrong Trousers, Groundhog Day. Based on this history, would this user prefer Backdraft or Bob Roberts? Answer Choices: (A) Backdraft (B) **Bob Roberts**

Output: The answer index is A.

#### A.5.2 Book.

- You are a book recommender system now.

Input: Here is the reading history of a user: Dress Your Family in Corduroy and Denim, My Age of Anxiety: Fear, Hope, Dread, and the Search for Peace of Mind, Knuffle Bunny: A Cautionary Tale, Don't Let The Pigeon Drive The Bus!, Purplicious (Pinkalicious). Based on this history, would this user prefer Something Other Than God: How I Passionately Sought Happiness and Accidentally Found It or Moms Who Drink and Swear: True Tales of Loving My Kids While Losing My Mind? Answer Choices: (A) **Something Other Than God: How I Passionately Sought Happiness and Accidentally Found It** (B) Moms Who Drink and Swear: True Tales of Loving My Kids While Losing My Mind

Output: The answer index is A.

Input: Here is the reading history of a user: The Hangman's Daughter, The Perfume Collector: A Novel, Tobacco Road, The Blackhouse: A Novel, Bad Monkey. Based on this history, would this user prefer Moving Day: A Thriller or The Boys in the Boat: Nine Americans and Their Epic Quest for Gold at the 1936 Berlin Olympics?

Answer Choices: (A) Moving Day: A Thriller **(B) The Boys in the Boat: Nine Americans and Their Epic Quest for Gold at the 1936 Berlin Olympics**

Output: The answer index is **B**.

- You are a book recommender system now.

Input: Here is the reading history of a user: Dress Your Family in Corduroy and Denim, My Age of Anxiety: Fear, Hope, Dread, and the Search for Peace of Mind, Knuffle Bunny: A Cautionary Tale, Don't Let The Pigeon Drive The Bus!, Purplicious (Pinkalicious). Based on this history, would this user prefer Something Other Than God: How I Passionately Sought Happiness and Accidentally Found It or Moms Who Drink and Swear: True Tales of Loving My Kids While Losing My Mind? Answer Choices: **(A) Something Other Than God: How I Passionately Sought Happiness and Accidentally Found It** (B) Moms Who Drink and Swear: True Tales of Loving My Kids While Losing My Mind

Output: The answer index is **A**.

Input: Here is the reading history of a user: The Hangman's Daughter, The Perfume Collector: A Novel, Tobacco Road, The Blackhouse: A Novel, Bad Monkey. Based on this history, would this user prefer The Boys in the Boat: Nine Americans and Their Epic Quest for Gold at the 1936 Berlin Olympics or I Hope They Serve Beer In Hell? Answer Choices: **(A) The Boys in the Boat: Nine Americans and Their Epic Quest for Gold at the 1936 Berlin Olympics** (B) I Hope They Serve Beer In Hell

Output: The answer index is **A**.

- You are a book recommender system now.

Input: Here is the reading history of a user: Dress Your Family in Corduroy and Denim, My Age of Anxiety: Fear, Hope, Dread, and the Search for Peace of Mind, Knuffle Bunny: A Cautionary Tale, Don't Let The Pigeon Drive The Bus!, Purplicious (Pinkalicious). Based on this history, would this user prefer Something Other Than God: How I Passionately Sought Happiness and Accidentally Found It or Moms Who Drink and Swear: True Tales of Loving My Kids While Losing My Mind? Answer Choices: **(A) Something Other Than God: How I Passionately Sought Happiness and Accidentally Found It** (B) Moms Who Drink and Swear: True Tales of Loving My Kids While Losing My Mind

Output: The answer index is **A**.

Input: Here is the reading history of a user: I Am the Messenger, Ghost Story (Dresden Files, No. 13), Forsaken, Notes to Self, Night of the Purple Moon. Based on this history, would this user prefer The Magician King: A Novel (The Magicians) or Midnight in Peking: How the Murder of a Young Englishwoman Haunted the Last Days of Old China? Answer Choices: (A) The Magician King: A Novel (The Magicians) **(B) Midnight in Peking: How the Murder of a Young Englishwoman Haunted the Last Days of Old China**

Output: The answer index is **B**.

- You are a book recommender system now.

Input: Here is the reading history of a user: Dress Your Family in Corduroy and Denim, My Age of Anxiety: Fear, Hope, Dread, and the Search for Peace of Mind, Knuffle Bunny: A Cautionary Tale, Don't Let The Pigeon Drive The Bus!, Purplicious (Pinkalicious). Based on this history, would this user prefer Something Other Than God: How I Passionately Sought Happiness and Accidentally Found It or Moms Who Drink and Swear: True Tales of Loving My Kids While Losing My Mind? Answer Choices: **(A) Something Other Than God: How I Passionately Sought Happiness and Accidentally Found It** (B) Moms Who Drink and Swear: True Tales of



Loving My Kids While Losing My Mind

Output: The answer index is A.

Input: Here is the reading history of a user: I Am the Messenger, Ghost Story (Dresden Files, No. 13), Forsaken, Notes to Self, Night of the Purple Moon. Based on this history, would this user prefer Midnight in Peking: How the Murder of a Young Englishwoman Haunted the Last Days of Old China or The End (A Series of Unfortunate Events, Book 13)? Answer Choices: (A) **Midnight in Peking: How the Murder of a Young Englishwoman Haunted the Last Days of Old China** (B) The End (A Series of Unfortunate Events, Book 13)

Output: The answer index is B.

- You are a book recommender system now.

Input: Here is the reading history of a user: Dress Your Family in Corduroy and Denim, My Age of Anxiety: Fear, Hope, Dread, and the Search for Peace of Mind, Knuffle Bunny: A Cautionary Tale, Don't Let The Pigeon Drive The Bus!, Purplicious (Pinkalicious). Based on this history, would this user prefer Something Other Than God: How I Passionately Sought Happiness and Accidentally Found It or Moms Who Drink and Swear: True Tales of Loving My Kids While Losing My Mind? Answer Choices: (A) **Something Other Than God: How I Passionately Sought Happiness and Accidentally Found It** (B) Moms Who Drink and Swear: True Tales of Loving My Kids While Losing My Mind

Output: The answer index is A.

Input: Here is the reading history of a user: Inferno, An Abundance of Katherines, The Son, Joyland, The Guns at Last Light: The War in Western Europe, 1944-1945 (Liberation Trilogy). Based on this history, would this user prefer The Geography of Bliss: One Grump's Search for the Happiest Places in the World or Allegiant (Divergent, #3)? Answer Choices: (A) The Geography of Bliss: One Grump's Search for the Happiest Places in the World (B) **Allegiant (Divergent, #3)**

Output: The answer index is A.

- You are a book recommender system now.

Input: Here is the reading history of a user: Dress Your Family in Corduroy and Denim, My Age of Anxiety: Fear, Hope, Dread, and the Search for Peace of Mind, Knuffle Bunny: A Cautionary Tale, Don't Let The Pigeon Drive The Bus!, Purplicious (Pinkalicious). Based on this history, would this user prefer Something Other Than God: How I Passionately Sought Happiness and Accidentally Found It or Moms Who Drink and Swear: True Tales of Loving My Kids While Losing My Mind? Answer Choices: (A) **Something Other Than God: How I Passionately Sought Happiness and Accidentally Found It** (B) Moms Who Drink and Swear: True Tales of Loving My Kids While Losing My Mind

Output: The answer index is A.

Input: Here is the reading history of a user: Inferno, An Abundance of Katherines, The Son, Joyland, The Guns at Last Light: The War in Western Europe, 1944-1945 (Liberation Trilogy). Based on this history, would this user prefer Allegiant (Divergent, #3) or No Easy Day: The Autobiography of a Navy Seal: The Firsthand Account of the Mission That Killed Osama Bin Laden? Answer Choices: (A) **Allegiant (Divergent, #3)** (B) No Easy Day: The Autobiography of a Navy Seal: The Firsthand Account of the Mission That Killed Osama Bin Laden

Output: The answer index is B.

#### A.5.3 Music.

- You are a music recommender system now.

2653 Input: Here is the listening history of a user: Broken Bells, She & Him - Volume Two, April Uprising, Congrat-  
 2654 ulations, You I Wind Land & Sea. Based on this history, would this user prefer This Is Happening or Thor?  
 2655 Answer Choices: (A) **This Is Happening** (B) Thor  
 2656 Output: The answer index is A.  
 2657  
 2658 Input: Here is the listening history of a user: Little Creatures, Louder Than Bombs, Wipers, Green Remastered,  
 2659 New Adventures in Hi-Fi. Based on this history, would this user prefer Whip It on or Ultra Lounge Vol. 11:  
 2660 Organs in Orbit? Answer Choices: (A) **Whip It on** (B) Ultra Lounge Vol. 11: Organs in Orbit  
 2661 Output: The answer index is A.  
 2662  
 2663 • You are a music recommender system now.  
 2664 Input: Here is the listening history of a user: Broken Bells, She & Him - Volume Two, April Uprising, Congrat-  
 2665 ulations, You I Wind Land & Sea. Based on this history, would this user prefer This Is Happening or Thor?  
 2666 Answer Choices: (A) **This Is Happening** (B) Thor  
 2667 Output: The answer index is A.  
 2668  
 2669 Input: Here is the listening history of a user: Little Creatures, Louder Than Bombs, Wipers, Green Remastered,  
 2670 New Adventures in Hi-Fi. Based on this history, would this user prefer Cocktail Capers: Ultra Lounge Vol. 8 or  
 2671 Whip It on? Answer Choices: (A) Cocktail Capers: Ultra Lounge Vol. 8 (B) **Whip It on**  
 2672 Output: The answer index is B.  
 2673  
 2674 • You are a music recommender system now.  
 2675 Input: Here is the listening history of a user: Broken Bells, She & Him - Volume Two, April Uprising, Congrat-  
 2676 ulations, You I Wind Land & Sea. Based on this history, would this user prefer This Is Happening or Thor?  
 2677 Answer Choices: (A) **This Is Happening** (B) Thor  
 2678 Output: The answer index is A.  
 2679  
 2680 Input: Here is the listening history of a user: Blunderbuss, Little Broken Hearts, havoc and bright lights, North,  
 2681 Closer To The Truth. Based on this history, would this user prefer The Diving Board or One of the Boys? Answer  
 2682 Choices: (A) **The Diving Board** (B) One of the Boys  
 2683 Output: The answer index is A.  
 2684  
 2685 • You are a music recommender system now.  
 2686 Input: Here is the listening history of a user: Broken Bells, She & Him - Volume Two, April Uprising, Congrat-  
 2687 ulations, You I Wind Land & Sea. Based on this history, would this user prefer This Is Happening or Thor?  
 2688 Answer Choices: (A) **This Is Happening** (B) Thor  
 2689 Output: The answer index is A.  
 2690  
 2691 Input: Here is the listening history of a user: Blunderbuss, Little Broken Hearts, havoc and bright lights, North,  
 2692 Closer To The Truth. Based on this history, would this user prefer Half The Perfect World or The Diving Board?  
 2693 Answer Choices: (A) Half The Perfect World (B) **The Diving Board**  
 2694 Output: The answer index is A.  
 2695  
 2696 • You are a music recommender system now.  
 2697 Input: Here is the listening history of a user: Broken Bells, She & Him - Volume Two, April Uprising, Congrat-  
 2698 ulations, You I Wind Land & Sea. Based on this history, would this user prefer This Is Happening or Thor?  
 2699 Answer Choices: (A) **This Is Happening** (B) Thor  
 2700 Output: The answer index is A.  
 2701  
 2702  
 2703  
 2704



Input: Here is the listening history of a user: New Miserable Experience, We Were Dead Before The Ship Even Sank, Stadium Arcadium, Dirt Farmer, April. Based on this history, would this user prefer Off the Ground or I Am Me? Answer Choices: **(A) Off the Ground** (B) I Am Me

Output: The answer index is **B**.

- You are a music recommender system now.

Input: Here is the listening history of a user: Broken Bells, She & Him - Volume Two, April Uprising, Congratulations, You I Wind Land & Sea. Based on this history, would this user prefer This Is Happening or Thor?

Answer Choices: **(A) This Is Happening** (B) Thor

Output: The answer index is **A**.

Input: Here is the listening history of a user: New Miserable Experience, We Were Dead Before The Ship Even Sank, Stadium Arcadium, Dirt Farmer, April. Based on this history, would this user prefer Wincing the Night Away or Off the Ground? Answer Choices: (A) Wincing the Night Away **(B) Off the Ground**

Output: The answer index is **A**.

#### A.5.4 News.

- You are a news recommender system now.

Input: Here is the reading history of a user: 'At 237 Lbs., I Was Embarrassed To Go To The Gym. So I Did An At-Home BeachBody Program And Lost 117 Lbs.', Should You Try the Controversial Cabbage Soup Diet? See What Experts Have to Say, How Much You Can Change Your Abs in 2 Weeks, It's Easy to Overdose on Acetaminophen and It Can Kill You, New Study Says, The keto diet is hard work but this hack makes it so much easier. Based on this history, would this user prefer Teresa Giudice Gives Advice to Lori Loughlin as She Faces Prison in College Admissions Scandal (Exclusive) or Lone Waffle House employee gets a helping hand from customers? Answer Choices: **(A) Teresa Giudice Gives Advice to Lori Loughlin as She Faces Prison in College Admissions Scandal (Exclusive)** (B) Lone Waffle House employee gets a helping hand from customers

Output: The answer index is **A**.

Input: Here is the reading history of a user: What Tom Brady, Lamar Jackson Told Each Other After Patriots-Ravens, Why You Should Always Order Ginger Ale on a Flight, Here Are the Biggest Deals We're Anticipating for Black Friday, Cracker Barrel Has Two Thanksgiving Options This Year, and They Both Sound Delicious, Winners, losers from Cowboys' win over Giants on 'Monday Night Football'. Based on this history, would this user prefer 30 Best Black Friday Deals from Costco or Apple bans vaping apps from the App Store? Answer Choices: **(A) 30 Best Black Friday Deals from Costco** (B) Apple bans vaping apps from the App Store

Output: The answer index is **A**.

- You are a news recommender system now.

Input: Here is the reading history of a user: 'At 237 Lbs., I Was Embarrassed To Go To The Gym. So I Did An At-Home BeachBody Program And Lost 117 Lbs.', Should You Try the Controversial Cabbage Soup Diet? See What Experts Have to Say, How Much You Can Change Your Abs in 2 Weeks, It's Easy to Overdose on Acetaminophen and It Can Kill You, New Study Says, The keto diet is hard work but this hack makes it so much easier. Based on this history, would this user prefer Teresa Giudice Gives Advice to Lori Loughlin as She Faces Prison in College Admissions Scandal (Exclusive) or Lone Waffle House employee gets a helping hand from customers? Answer Choices: **(A) Teresa Giudice Gives Advice to Lori Loughlin as She Faces**

**Prison in College Admissions Scandal (Exclusive)** (B) Lone Waffle House employee gets a helping hand from customers

Output: The answer index is A.

Input: Here is the reading history of a user: What Tom Brady, Lamar Jackson Told Each Other After Patriots-Ravens, Why You Should Always Order Ginger Ale on a Flight, Here Are the Biggest Deals We're Anticipating for Black Friday, Cracker Barrel Has Two Thanksgiving Options This Year, and They Both Sound Delicious, Winners, losers from Cowboys' win over Giants on 'Monday Night Football'. Based on this history, would this user prefer Supporting your adult children can ruin your retirement plans or 30 Best Black Friday Deals from Costco? Answer Choices: (A) Supporting your adult children can ruin your retirement plans **(B) 30 Best Black Friday Deals from Costco**

Output: The answer index is B.

- You are a news recommender system now.

Input: Here is the reading history of a user: 'At 237 Lbs., I Was Embarrassed To Go To The Gym. So I Did An At-Home BeachBody Program And Lost 117 Lbs.', Should You Try the Controversial Cabbage Soup Diet? See What Experts Have to Say, How Much You Can Change Your Abs in 2 Weeks, It's Easy to Overdose on Acetaminophen and It Can Kill You, New Study Says, The keto diet is hard work but this hack makes it so much easier. Based on this history, would this user prefer Teresa Giudice Gives Advice to Lori Loughlin as She Faces Prison in College Admissions Scandal (Exclusive) or Lone Waffle House employee gets a helping hand from customers? Answer Choices: **(A) Teresa Giudice Gives Advice to Lori Loughlin as She Faces Prison in College Admissions Scandal (Exclusive)** (B) Lone Waffle House employee gets a helping hand from customers

Output: The answer index is A.

Input: Here is the reading history of a user: What Tom Brady, Lamar Jackson Told Each Other After Patriots-Ravens, Why You Should Always Order Ginger Ale on a Flight, Here Are the Biggest Deals We're Anticipating for Black Friday, Cracker Barrel Has Two Thanksgiving Options This Year, and They Both Sound Delicious, Winners, losers from Cowboys' win over Giants on 'Monday Night Football'. Based on this history, would this user prefer 30 Best Black Friday Deals from Costco or Opinion: Baylor football back on top four years after sexual assault scandal rocked campus? Answer Choices: **(A) 30 Best Black Friday Deals from Costco** (B) Opinion: Baylor football back on top four years after sexual assault scandal rocked campus

Output: The answer index is B.

- You are a news recommender system now.

Input: Here is the reading history of a user: 'At 237 Lbs., I Was Embarrassed To Go To The Gym. So I Did An At-Home BeachBody Program And Lost 117 Lbs.', Should You Try the Controversial Cabbage Soup Diet? See What Experts Have to Say, How Much You Can Change Your Abs in 2 Weeks, It's Easy to Overdose on Acetaminophen and It Can Kill You, New Study Says, The keto diet is hard work but this hack makes it so much easier. Based on this history, would this user prefer Teresa Giudice Gives Advice to Lori Loughlin as She Faces Prison in College Admissions Scandal (Exclusive) or Lone Waffle House employee gets a helping hand from customers? Answer Choices: **(A) Teresa Giudice Gives Advice to Lori Loughlin as She Faces Prison in College Admissions Scandal (Exclusive)** (B) Lone Waffle House employee gets a helping hand from customers

Output: The answer index is A.

Input: Here is the reading history of a user: What Tom Brady, Lamar Jackson Told Each Other After Patriots-Ravens, Why You Should Always Order Ginger Ale on a Flight, Here Are the Biggest Deals We're Anticipating for Black Friday, Cracker Barrel Has Two Thanksgiving Options This Year, and They Both Sound Delicious, Winners, losers from Cowboys' win over Giants on 'Monday Night Football'. Based on this history, would this user prefer Supporting your adult children can ruin your retirement plans or 30 Best Black Friday Deals from Costco? Answer Choices: (A) Supporting your adult children can ruin your retirement plans **(B) 30 Best Black Friday Deals from Costco**

Output: The answer index is **B**.

- You are a news recommender system now.

Input: Here is the reading history of a user: 'At 237 Lbs., I Was Embarrassed To Go To The Gym. So I Did An At-Home BeachBody Program And Lost 117 Lbs.', Should You Try the Controversial Cabbage Soup Diet? See What Experts Have to Say, How Much You Can Change Your Abs in 2 Weeks, It's Easy to Overdose on Acetaminophen and It Can Kill You, New Study Says, The keto diet is hard work but this hack makes it so much easier. Based on this history, would this user prefer Teresa Giudice Gives Advice to Lori Loughlin as She Faces Prison in College Admissions Scandal (Exclusive) or Lone Waffle House employee gets a helping hand from customers? Answer Choices: **(A) Teresa Giudice Gives Advice to Lori Loughlin as She Faces Prison in College Admissions Scandal (Exclusive)** (B) Lone Waffle House employee gets a helping hand from customers

Output: The answer index is **A**.

Input: Here is the reading history of a user: Mayfield's postgame outfit gets all the memes, Jamie Lee Curtis Opens Up About Being 20 Years Sober, Going Public With Her Addiction, Firefighters Find a Diamond Ring in the Getty Fire Rubble, Nigerian police free 259 people from Islamic institution, Russian smuggling linked to 39 bodies found in truck in Britain. Based on this history, would this user prefer There are 14 cheap days to fly left in 2019: When are they and what deals can you score? or What Menopause Does to Women's Brains? Answer Choices: (A) There are 14 cheap days to fly left in 2019: When are they and what deals can you score? **(B) What Menopause Does to Women's Brains**

Output: The answer index is **A**.

- You are a news recommender system now.

Input: Here is the reading history of a user: 'At 237 Lbs., I Was Embarrassed To Go To The Gym. So I Did An At-Home BeachBody Program And Lost 117 Lbs.', Should You Try the Controversial Cabbage Soup Diet? See What Experts Have to Say, How Much You Can Change Your Abs in 2 Weeks, It's Easy to Overdose on Acetaminophen and It Can Kill You, New Study Says, The keto diet is hard work but this hack makes it so much easier. Based on this history, would this user prefer Teresa Giudice Gives Advice to Lori Loughlin as She Faces Prison in College Admissions Scandal (Exclusive) or Lone Waffle House employee gets a helping hand from customers? Answer Choices: **(A) Teresa Giudice Gives Advice to Lori Loughlin as She Faces Prison in College Admissions Scandal (Exclusive)** (B) Lone Waffle House employee gets a helping hand from customers

Output: The answer index is **A**.

Input: Here is the reading history of a user: Mayfield's postgame outfit gets all the memes, Jamie Lee Curtis Opens Up About Being 20 Years Sober, Going Public With Her Addiction, Firefighters Find a Diamond Ring in the Getty Fire Rubble, Nigerian police free 259 people from Islamic institution, Russian smuggling linked

to 39 bodies found in truck in Britain. Based on this history, would this user prefer What Menopause Does to Women's Brains or Impeachment inquiry: White House releases rough transcript of Trump's earlier call with Zelensky? Answer Choices: **(A) What Menopause Does to Women's Brains** (B) Impeachment inquiry: White House releases rough transcript of Trump's earlier call with Zelensky  
Output: The answer index is **B**.

## A.6 text-davinci-003 with listwise

### A.6.1 *Movie*.

- You are a movie recommender system now.

Input: Here is the watching history of a user: Gattaca, Armageddon, Big, Babes in Toyland, Gladiator. Based on this history, please rank the following candidate movies: (A) Con Air (B) Mulan (C) Nikita **(D) Donnie Brasco** (E) Star Wars: Episode I - The Phantom Menace

Output: The answer index is D E B C A.

Input: Here is the watching history of a user: The Virgin Suicides, Mission to Mars, Requiem for a Dream, Hamlet, Space Cowboys. Based on this history, please rank the following candidate movies: (A) Speed 2: Cruise Control (B) The Joy Luck Club (C) Final Destination **(D) Almost Famous** (E) Little Nemo: Adventures in Slumberland

Output: The answer index is D B E C A.

- You are a movie recommender system now.

Input: Here is the watching history of a user: Gattaca, Armageddon, Big, Babes in Toyland, Gladiator. Based on this history, please rank the following candidate movies: (A) Con Air (B) Mulan (C) Nikita **(D) Donnie Brasco** (E) Star Wars: Episode I - The Phantom Menace

Output: The answer index is D E B C A.

Input: Here is the watching history of a user: Ronin, Dances with Wolves, True Lies, Twister, Seven. Based on this history, please rank the following candidate movies: (A) The Out-of-Towners (B) The English Patient (C) Suicide Kings **(D) Donnie Brasco** (E) Billy Madison

Output: The answer index is D C B E A.

- You are a movie recommender system now.

Input: Here is the watching history of a user: Gattaca, Armageddon, Big, Babes in Toyland, Gladiator. Based on this history, please rank the following candidate movies: (A) Con Air (B) Mulan (C) Nikita **(D) Donnie Brasco** (E) Star Wars: Episode I - The Phantom Menace

Output: The answer index is D E B C A.

Input: Here is the watching history of a user: The Adventures of Milo and Otis, The Pelican Brief, Dinosaur, Air Force One, The First Wives Club. Based on this history, please rank the following candidate movies: (A) The Good Bad and The Ugly (B) Robin Hood: Men in Tights (C) Thumbelina **(D) George of the Jungle** (E) Tom and Huck

Output: The answer index is A D E B C.

- You are a movie recommender system now.

Input: Here is the watching history of a user: Gattaca, Armageddon, Big, Babes in Toyland, Gladiator. Based on this history, please rank the following candidate movies: (A) Con Air (B) Mulan (C) Nikita **(D) Donnie Brasco**

(E) Star Wars: Episode I - The Phantom Menace

Output: The answer index is D E B C A.

Input: Here is the watching history of a user: Mrs. Doubtfire, Mr. Saturday Night, The Twelve Chairs, Nothing in Common, Aladdin and the King of Thieves. Based on this history, please rank the following candidate movies: (A) Predator (B) With Honors (C) Police Academy 5: Assignment: Miami Beach (D) Funny Farm (E) **The Third Man**

Output: The answer index is B D E A C.

- You are a movie recommender system now.

Input: Here is the watching history of a user: Gattaca, Armageddon, Big, Babes in Toyland, Gladiator. Based on this history, please rank the following candidate movies: (A) Con Air (B) Mulan (C) Nikita (D) **Donnie Brasco** (E) Star Wars: Episode I - The Phantom Menace

Output: The answer index is D E B C A.

Input: Here is the watching history of a user: Ben-Hur, In the Line of Fire, Seven Samurai, The Wrong Trousers, Groundhog Day. Based on this history, please rank the following candidate movies: (A) Heathers (B) Backdraft (C) **Bob Roberts** (D) Ghost (E) Eat Drink Man Woman

Output: The answer index is A B D C E.

- You are a movie recommender system now.

Input: Here is the watching history of a user: Gattaca, Armageddon, Big, Babes in Toyland, Gladiator. Based on this history, please rank the following candidate movies: (A) Con Air (B) Mulan (C) Nikita (D) **Donnie Brasco** (E) Star Wars: Episode I - The Phantom Menace

Output: The answer index is D E B C A.

Input: Here is the watching history of a user: Bound, The Hunt for Red October, Seven, Red Rock West, The Firm. Based on this history, please rank the following candidate movies: (A) The Negotiator (B) **Frequency** (C) The Way of the Gun (D) The Rock (E) The Big Kahuna

Output: The answer index is C A D E B.

#### A.6.2 Book.

- You are a book recommender system now.

Input: Here is the reading history of a user: Dress Your Family in Corduroy and Denim, My Age of Anxiety: Fear, Hope, Dread, and the Search for Peace of Mind, Knuffle Bunny: A Cautionary Tale, Don't Let The Pigeon Drive The Bus!, Purplicious (Pinkalicious). Based on this history, please rank the following candidate books: (A) Moms Who Drink and Swear: True Tales of Loving My Kids While Losing My Mind (B) Suicide of a Superpower: Will America Survive to 2025? (C) The Particular Sadness of Lemon Cake: A Novel (D) **Something Other Than God: How I Passionately Sought Happiness and Accidentally Found It** (E) I Know This Much Is True

Output: The answer index is D B C E A.

Input: Here is the reading history of a user: My Sister's Keeper: A Novel, The Last Lecture, Death Angel: A Novel, The Art of Racing in the Rain, Handle with Care: A Novel. Based on this history, please rank the following candidate books: (A) The One & Only: A Novel (B) **Sworn to Silence (Kate Burkholder Novels)** (C) Happy Birthday: A Novel (D) Mercy (E) Baby Proof

Output: The answer index is B A D C E.

- You are a book recommender system now.

Input: Here is the reading history of a user: Dress Your Family in Corduroy and Denim, My Age of Anxiety: Fear, Hope, Dread, and the Search for Peace of Mind, Knuffle Bunny: A Cautionary Tale, Don't Let The Pigeon Drive The Bus!, Purplicious (Pinkalicious). Based on this history, please rank the following candidate books: (A) Moms Who Drink and Swear: True Tales of Loving My Kids While Losing My Mind (B) Suicide of a Superpower: Will America Survive to 2025? (C) The Particular Sadness of Lemon Cake: A Novel **(D) Something Other Than God: How I Passionately Sought Happiness and Accidentally Found It** (E) I Know This Much Is True  
Output: The answer index is D B C E A.

Input: Here is the reading history of a user: The Traitor's Wife: A Novel, Six Years, Immortal in Death (In Death, Book 3), The Return Of Rafe Mackade (Silhouette Intimate Moments - The Mackade Brothers), Pride Of Jared Mackade (The Mackade Brothers). Based on this history, please rank the following candidate books: (A) A Girl, A Guy, and A Ghost (B) The Whole Enchilada: A Novel of Suspense (Goldy Schulz) (C) Long Lost (Myron Bolitar) **(D) Bed of Roses (The Bride Quartet, Book 2)** (E) I, Michael Bennett (Michael Bennett, Book 5)

Output: The answer index is D C B A E.

- You are a book recommender system now.

Input: Here is the reading history of a user: Dress Your Family in Corduroy and Denim, My Age of Anxiety: Fear, Hope, Dread, and the Search for Peace of Mind, Knuffle Bunny: A Cautionary Tale, Don't Let The Pigeon Drive The Bus!, Purplicious (Pinkalicious). Based on this history, please rank the following candidate books: (A) Moms Who Drink and Swear: True Tales of Loving My Kids While Losing My Mind (B) Suicide of a Superpower: Will America Survive to 2025? (C) The Particular Sadness of Lemon Cake: A Novel **(D) Something Other Than God: How I Passionately Sought Happiness and Accidentally Found It** (E) I Know This Much Is True

Output: The answer index is D B C E A.

Input: Here is the reading history of a user: The Cuckoo's Calling, Humans of New York, Until the End of the World, Written In Red: A Novel of the Others, Murder of Crows: A Novel of the Others. Based on this history, please rank the following candidate books: **(A) Night Broken (Mercy Thompson Series)** (B) A Dance with Dragons (C) Kiss the Dead (Anita Blake, Vampire Hunter) (D) Bad Blood: a Virgil Flowers novel (E) The First Days (As the World Dies, Book One)

Output: The answer index is B A D E C.

- You are a book recommender system now.

Input: Here is the reading history of a user: Dress Your Family in Corduroy and Denim, My Age of Anxiety: Fear, Hope, Dread, and the Search for Peace of Mind, Knuffle Bunny: A Cautionary Tale, Don't Let The Pigeon Drive The Bus!, Purplicious (Pinkalicious). Based on this history, please rank the following candidate books: (A) Moms Who Drink and Swear: True Tales of Loving My Kids While Losing My Mind (B) Suicide of a Superpower: Will America Survive to 2025? (C) The Particular Sadness of Lemon Cake: A Novel **(D) Something Other Than God: How I Passionately Sought Happiness and Accidentally Found It** (E) I Know This Much Is True

Output: The answer index is D B C E A.

Input: Here is the reading history of a user: Destiny of the Republic: A Tale of Madness, Medicine and the Murder of a President, Heaven Is Here: An Incredible Story of Hope, Triumph, and Everyday Joy, 1493: Uncovering the New World Columbus Created, Wilderness: A Novel, Little Girl Blue: The Life of Karen Carpenter. Based on this history, please rank the following candidate books: (A) Major Pettigrew's Last Stand: A Novel **(B) Slaughterhouse-Five (or The Children's Crusade: A Duty Dance with Death)** (C) The Mapping of Love and Death (Maisie Dobbs, Book 7) (D) A Blaze of Glory: A Novel of the Battle of Shiloh (A Novel of the Civil



War) (E) Blood Makes Noise

Output: The answer index is A C B E D.

- You are a book recommender system now.

Input: Here is the reading history of a user: Dress Your Family in Corduroy and Denim, My Age of Anxiety: Fear, Hope, Dread, and the Search for Peace of Mind, Knuffle Bunny: A Cautionary Tale, Don't Let The Pigeon Drive The Bus!, Purplicious (Pinkalicious). Based on this history, please rank the following candidate books: (A) Moms Who Drink and Swear: True Tales of Loving My Kids While Losing My Mind (B) Suicide of a Superpower: Will America Survive to 2025? (C) The Particular Sadness of Lemon Cake: A Novel (D) **Something Other Than God: How I Passionately Sought Happiness and Accidentally Found It** (E) I Know This Much Is True

Output: The answer index is D B C E A.

Input: Here is the reading history of a user: Flowers for Algernon, Five Days at Memorial: Life and Death in a Storm-Ravaged Hospital, Hollow City (Miss Peregrine's Peculiar Children), The Winter People: A Novel, The Ocean at the End of the Lane: A Novel. Based on this history, please rank the following candidate books: (A) **Confessions of a Sociopath: A Life Spent Hiding in Plain Sight** (B) Dark Places: A Novel (C) One Good Dog (D) Monkey Mind: A Memoir of Anxiety (E) Quiet: The Power of Introverts in a World That Can't Stop Talking

Output: The answer index is D B E A C.

- You are a book recommender system now.

Input: Here is the reading history of a user: Dress Your Family in Corduroy and Denim, My Age of Anxiety: Fear, Hope, Dread, and the Search for Peace of Mind, Knuffle Bunny: A Cautionary Tale, Don't Let The Pigeon Drive The Bus!, Purplicious (Pinkalicious). Based on this history, please rank the following candidate books: (A) Moms Who Drink and Swear: True Tales of Loving My Kids While Losing My Mind (B) Suicide of a Superpower: Will America Survive to 2025? (C) The Particular Sadness of Lemon Cake: A Novel (D) **Something Other Than God: How I Passionately Sought Happiness and Accidentally Found It** (E) I Know This Much Is True

Output: The answer index is D B C E A.

Input: Here is the reading history of a user: Tangled (The Tangled Series), Thief (Love Me With Lies) (Volume 3), Unteachable, Lovely Trigger (Tristan & Danika) (Volume 3), Monster in His Eyes. Based on this history, please rank the following candidate books: (A) Beautiful Ink (Forever Inked Novel) (Volume 1) (B) More Than This (C) Because of Low (Sea Breeze) (D) The Other Boleyn Girl (E) **Bob Books, Set 1: Beginning Readers**

Output: The answer index is B A D C E.

#### A.6.3 Music.

- You are a music recommender system now.

Input: Here is the listening history of a user: Broken Bells, She & Him - Volume Two, April Uprising, Congratulations, You I Wind Land & Sea. Based on this history, please rank the following candidate music: (A) Thor (B) All Gas. No Brake. (C) **This Is Happening** (D) Momentum (E) Fallow

Output: The answer index is C D B A E.

Input: Here is the listening history of a user: Songs of Leonard Cohen, Ege Bamyasi, East-West, Out Of Range, Umbrella. Based on this history, please rank the following candidate music: (A) Slanted and Enchanted (B) Bricks Are Heavy (C) **Innocence Mission** (D) Frogstomp (E) Into Outer Space

Output: The answer index is C A D E B.



- You are a music recommender system now.

Input: Here is the listening history of a user: Broken Bells, She & Him - Volume Two, April Uprising, Congratulations, You I Wind Land & Sea. Based on this history, please rank the following candidate music: (A) Thor (B) All Gas. No Brake. **(C) This Is Happening** (D) Momentum (E) Fallow

Output: The answer index is C D B A E.

Input: Here is the listening history of a user: Beethoven: 9 Symphonies, Beethoven: The Piano Concertos - Choral Fantasy / Levin, Gardiner, Handel - Messiah, Beethoven: Complete Symphonies, Beethoven: The Symphonies. Based on this history, please rank the following candidate music: **(A) Beethoven: The Symphonies** (B) Beethoven: The Symphonies (C) Mahler: The Symphonies (D) Brahms: Symphonies (E) Mahler: Symphony 3

Output: The answer index is A B D C E.

- You are a music recommender system now.

Input: Here is the listening history of a user: Broken Bells, She & Him - Volume Two, April Uprising, Congratulations, You I Wind Land & Sea. Based on this history, please rank the following candidate music: (A) Thor (B) All Gas. No Brake. **(C) This Is Happening** (D) Momentum (E) Fallow

Output: The answer index is C D B A E.

Input: Here is the listening history of a user: Takk, Tommy James and the Shondells Anthology, James Gang - Greatest Hits, Dragon Fly, Four Cornered Night. Based on this history, please rank the following candidate music: (A) Genius Hits the Road (B) Mean Everything To Nothing (C) Voodoo **(D) Pieces Of You** (E) In The Eye Of The Storm

Output: The answer index is B D A E C.

- You are a music recommender system now.

Input: Here is the listening history of a user: Broken Bells, She & Him - Volume Two, April Uprising, Congratulations, You I Wind Land & Sea. Based on this history, please rank the following candidate music: (A) Thor (B) All Gas. No Brake. **(C) This Is Happening** (D) Momentum (E) Fallow

Output: The answer index is C D B A E.

Input: Here is the listening history of a user: A Hundred Miles or More: A Collection, Empire Burlesque, Anywhere I Lay My Head, Pink, Funhouse (Clean version), Sony BMG, 5238228, Pop, R&B, Clean Version, Pop/Rock Music, Recorded Music - Rock & Pop, Rock & Pop - General, Soul & R&B />, Wasting Light. Based on this history, please rank the following candidate music: (A) From This Moment On (B) In Time: The Best Of R.E.M., 1988-2003 (C) Surfacing **(D) Fade** (E) Cassadaga

Output: The answer index is A C D B E.

- You are a music recommender system now.

Input: Here is the listening history of a user: Broken Bells, She & Him - Volume Two, April Uprising, Congratulations, You I Wind Land & Sea. Based on this history, please rank the following candidate music: (A) Thor (B) All Gas. No Brake. **(C) This Is Happening** (D) Momentum (E) Fallow

Output: The answer index is C D B A E.

Input: Here is the listening history of a user: Little Creatures, Louder Than Bombs, Wipers, Green Remastered, New Adventures in Hi-Fi. Based on this history, please rank the following candidate music: (A) Ultra Lounge Vol. 11: Organs in Orbit (B) Cerulean (C) Cocktail Capers: Ultra Lounge Vol. 8 **(D) Whip It on** (E) Remain in Light

Output: The answer index is B A C D E.

- You are a music recommender system now.

Input: Here is the listening history of a user: Broken Bells, She & Him - Volume Two, April Uprising, Congratulations, You I Wind Land & Sea. Based on this history, please rank the following candidate music: (A) Thor (B) All Gas. No Brake. (C) **This Is Happening** (D) Momentum (E) Fallow

Output: The answer index is C D B A E.

Input: Here is the listening history of a user: Peter Gabriel 1: Car, Pirates, Mule Variations Remastered, Benefit, Genesis Live Definitive Edition. Based on this history, please rank the following candidate music: (A) Peter Gabriel (B) Evergreen (C) Manhole (D) Tales from Topographic Oceans (E) **Transformation: Best of**

Output: The answer index is A B C D E.

#### A.6.4 News.

- You are a news recommender system now.

Input: Here is the reading history of a user: 'At 237 Lbs., I Was Embarrassed To Go To The Gym. So I Did An At-Home BeachBody Program And Lost 117 Lbs.', Should You Try the Controversial Cabbage Soup Diet? See What Experts Have to Say, How Much You Can Change Your Abs in 2 Weeks, It's Easy to Overdose on Acetaminophen and It Can Kill You, New Study Says, The keto diet is hard work but this hack makes it so much easier. Based on this history, please rank the following candidate news: (A) Lone Waffle House employee gets a helping hand from customers (B) Significant others (C) Russia Releases Norwegian, Lithuanians in Unusual Spy Swap (D) **Teresa Giudice Gives Advice to Lori Loughlin as She Faces Prison in College Admissions Scandal (Exclusive)** (E) Women's rugby teams join forces to move ambulance

Output: The answer index is D B A E C.

Input: Here is the reading history of a user: Kevin Spacey Won't Be Charged in Sexual Assault Case After Accuser Dies, Ian Ziering's Wife Erin Ludwig Files for Divorce Days After Split Announcement, A wave crashed over a couple during their beach wedding photo shoot, and now the stunning picture is going viral, Jessica Simpson's latest Birdie Mae post suggests she's done having kids, plus more news, Kate & Meghan Head to Separate Events in Gorgeous Blue Outfits. Based on this history, please rank the following candidate news: (A) **Opinion: Colin Kaepernick is about to get what he deserves: a chance** (B) Celebrity PDA of 2019 (C) 3 Indiana judges suspended after a night of drinking turned into a White Castle brawl (D) How much turkey do you need to buy per person? (E) Camila Cabello Explains the Sweet Meaning Behind Her First Tattoo

Output: The answer index is A B E C D.

- You are a news recommender system now.

Input: Here is the reading history of a user: 'At 237 Lbs., I Was Embarrassed To Go To The Gym. So I Did An At-Home BeachBody Program And Lost 117 Lbs.', Should You Try the Controversial Cabbage Soup Diet? See What Experts Have to Say, How Much You Can Change Your Abs in 2 Weeks, It's Easy to Overdose on Acetaminophen and It Can Kill You, New Study Says, The keto diet is hard work but this hack makes it so much easier. Based on this history, please rank the following candidate news: (A) Lone Waffle House employee gets a helping hand from customers (B) Significant others (C) Russia Releases Norwegian, Lithuanians in Unusual Spy Swap (D) **Teresa Giudice Gives Advice to Lori Loughlin as She Faces Prison in College Admissions Scandal (Exclusive)** (E) Women's rugby teams join forces to move ambulance

Output: The answer index is D B A E C.

Input: Here is the reading history of a user: What Trump Didn't Say About the Massacre in Mexico, Trump's 2016 team sounds alarm as Democrats make gains, Trump campaign launching black outreach effort for 2020, Internet Freedom Continues Global Decline for 9th Consecutive Year, Sessions wins endorsement from key GOP senators. Based on this history, please rank the following candidate news: **(A) Executive Privilege Should Have No Power When It Comes to an Impeachment** (B) Home values in these cities have grown the most since the last recession (C) AirFly Pro can stream Bluetooth audio to and from any 3.5mm jack (D) Thieves Steal \$40K Worth Of Equipment From Volunteer Fire Station (E) Raise Billions From Billionaires? Tax Experts Say It's Not That Simple

Output: The answer index is A D E B C.

- You are a news recommender system now.

Input: Here is the reading history of a user: 'At 237 Lbs., I Was Embarrassed To Go To The Gym. So I Did An At-Home BeachBody Program And Lost 117 Lbs.', Should You Try the Controversial Cabbage Soup Diet? See What Experts Have to Say, How Much You Can Change Your Abs in 2 Weeks, It's Easy to Overdose on Acetaminophen and It Can Kill You, New Study Says, The keto diet is hard work but this hack makes it so much easier. Based on this history, please rank the following candidate news: (A) Lone Waffle House employee gets a helping hand from customers (B) Significant others (C) Russia Releases Norwegian, Lithuanians in Unusual Spy Swap **(D) Teresa Giudice Gives Advice to Lori Loughlin as She Faces Prison in College Admissions Scandal (Exclusive)** (E) Women's rugby teams join forces to move ambulance

Output: The answer index is D B A E C.

Input: Here is the reading history of a user: A man dies in Hawaii after falling into a lava tube in his yard, Ian Ziering's Wife Erin Ludwig Files for Divorce Days After Split Announcement, Dubrovnik Has So Many Tourists It May Ban New Restaurants for Five Years, Ian Ziering's Wife Erin Ludwig Files for Divorce Days After Split Announcement, Christopher Dennis Dies: 'Hollywood Superman' And Frequent 'Jimmy Kimmel Live!' Guest Was 52. Based on this history, please rank the following candidate news: (A) 3 Indiana judges suspended after a night of drinking turned into a White Castle brawl (B) Why This Couple Is Getting a 'Sleep Divorce' **(C) THEN AND NOW: What all your favorite '90s stars are doing today** (D) Report: Police investigating woman's death after Redskins' player Montae Nicholson took her to hospital (E) 66 Cool Tech Gifts Anyone Would Be Thrilled to Receive

Output: The answer index is A C B E D.

- You are a news recommender system now.

Input: Here is the reading history of a user: 'At 237 Lbs., I Was Embarrassed To Go To The Gym. So I Did An At-Home BeachBody Program And Lost 117 Lbs.', Should You Try the Controversial Cabbage Soup Diet? See What Experts Have to Say, How Much You Can Change Your Abs in 2 Weeks, It's Easy to Overdose on Acetaminophen and It Can Kill You, New Study Says, The keto diet is hard work but this hack makes it so much easier. Based on this history, please rank the following candidate news: (A) Lone Waffle House employee gets a helping hand from customers (B) Significant others (C) Russia Releases Norwegian, Lithuanians in Unusual Spy Swap **(D) Teresa Giudice Gives Advice to Lori Loughlin as She Faces Prison in College Admissions Scandal (Exclusive)** (E) Women's rugby teams join forces to move ambulance

Output: The answer index is D B A E C.

Input: Here is the reading history of a user: Mike 'The Situation' Sorrentino Fires Back After Steroid Accusations, Meghan McCain GOES IN on Donald Trump Jr. on 'The View', Bogus Warren Quote Ignites Immigration Anger,

Chevrolet Performance Reveals New Small Block Crate Engine, The economic picture is darkening in states critical to Trump's reelection bid. Based on this history, please rank the following candidate news: (A) 11 Regional Thanksgiving Recipes That Food Bloggers Swear By (B) Former North Carolina State, NBA player Anthony Grundy dies in stabbing, police say (C) **Maze of tunnels reveals remains of ancient Jerusalem** (D) 4 takeaways from Marie Yovanovitch's testimony (E) Cows swept away by Hurricane Dorian found alive but how?

Output: The answer index is **D B C A E**.

- You are a news recommender system now.

Input: Here is the reading history of a user: 'At 237 Lbs., I Was Embarrassed To Go To The Gym. So I Did An At-Home BeachBody Program And Lost 117 Lbs.', Should You Try the Controversial Cabbage Soup Diet? See What Experts Have to Say, How Much You Can Change Your Abs in 2 Weeks, It's Easy to Overdose on Acetaminophen and It Can Kill You, New Study Says, The keto diet is hard work but this hack makes it so much easier. Based on this history, please rank the following candidate news: (A) Lone Waffle House employee gets a helping hand from customers (B) Significant others (C) Russia Releases Norwegian, Lithuanians in Unusual Spy Swap (D) **Teresa Giudice Gives Advice to Lori Loughlin as She Faces Prison in College Admissions Scandal (Exclusive)** (E) Women's rugby teams join forces to move ambulance

Output: The answer index is **D B A E C**.

Input: Here is the reading history of a user: 12 Things Sex Therapists Wish You Knew, News anchor calls out body-shaming comments after being told she looks 'mighty big on TV', How Your Hormones, Weight, or Medication Could Be Killing Your Sex Drive, New Hampshire Couple's Adventure Ends in Mysterious Death in Texas, Iran downs drone over southern port city - IRNA. Based on this history, please rank the following candidate news: (A) **This is it, this is the luckiest break in the history of golf** (B) The Unlikely Star of My Family's Thanksgiving Table (C) 13 Reasons Why's Christian Navarro Slams Disney for Casting 'the White Guy' in The Little Mermaid (D) Cows swept away by Hurricane Dorian found alive but how? (E) The Real Reason McDonald's Keeps the Filet-O-Fish on Their Menu

Output: The answer index is **D B E A C**.

- You are a news recommender system now.

Input: Here is the reading history of a user: 'At 237 Lbs., I Was Embarrassed To Go To The Gym. So I Did An At-Home BeachBody Program And Lost 117 Lbs.', Should You Try the Controversial Cabbage Soup Diet? See What Experts Have to Say, How Much You Can Change Your Abs in 2 Weeks, It's Easy to Overdose on Acetaminophen and It Can Kill You, New Study Says, The keto diet is hard work but this hack makes it so much easier. Based on this history, please rank the following candidate news: (A) Lone Waffle House employee gets a helping hand from customers (B) Significant others (C) Russia Releases Norwegian, Lithuanians in Unusual Spy Swap (D) **Teresa Giudice Gives Advice to Lori Loughlin as She Faces Prison in College Admissions Scandal (Exclusive)** (E) Women's rugby teams join forces to move ambulance

Output: The answer index is **D B A E C**.

Input: Here is the reading history of a user: Kristen Stewart Just Made Leather Bras a Thing, and We're All For It, One of FBI's Most Wanted fugitives offers surrender, Dog Throws A Total Tantrum When She Realizes Mom Wants To Take The Stairs, Mother Is Freed After 15 Years in Prison for Father's Abuse, Kendall Jenner Wore the Tiniest Dress to Go Jewelry Shopping. Based on this history, please rank the following candidate news: (A) Kristen Bell's Cozy Look Is a Lesson in Winter Airport Fashion (B) 20 Style Lessons Chrissy Teigen Taught Us

That We'll Remember Until the End of Time (C) **Your Thanksgiving Guests Will Be Very Thankful for Our Favorite Turkey Recipes** (D) Archie's Photo Album: Prince Harry, Duchess Meghan's Royal Baby (E) Boy uses his Make-A-Wish to get special space that other schoolchildren can use  
 Output: The answer index is A B D E C.

## A.7 gpt-3.5-turbo with pointwise

### A.7.1 *Movie.*

- You are a movie recommender system now.

Input: Here is the watching history of a user: Gattaca, Armageddon, Big, Babes in Toyland, Gladiator. Based on this history, please predict the user's rating for the following item: Nikita (1 being lowest and 5 being highest)  
 Output: 1.

Input: Here is the watching history of a user: The Virgin Suicides, Goya in Bordeaux, Snow Falling on Cedars, Gladiator, Hamlet. Based on this history, please predict the user's rating for the following item: The Last September (1 being lowest and 5 being highest)

Output: 5.

Input: Here is the watching history of a user: American Pie, Attack of the Killer Tomatoes!, Babe, Back to the Future Part II, Back to the Future Part III. Based on this history, please predict the user's rating for the following item: Back to the Future (1 being lowest and 5 being highest)

Output: 5.

- You are a movie recommender system now.

Input: Here is the watching history of a user: Gattaca, Armageddon, Big, Babes in Toyland, Gladiator. Based on this history, please predict the user's rating for the following item: Nikita (1 being lowest and 5 being highest)  
 Output: 1.

Input: Here is the watching history of a user: The Virgin Suicides, Goya in Bordeaux, Snow Falling on Cedars, Gladiator, Hamlet. Based on this history, please predict the user's rating for the following item: The Last September (1 being lowest and 5 being highest)

Output: 5.

Input: Here is the watching history of a user: Star Trek III: The Search for Spock, Back to the Future Part II, Escape from the Planet of the Apes, Star Trek: Generations, Honey, I Shrunk the Kids. Based on this history, please predict the user's rating for the following item: Back to the Future Part III (1 being lowest and 5 being highest)

Output: 5.

- You are a movie recommender system now.

Input: Here is the watching history of a user: Gattaca, Armageddon, Big, Babes in Toyland, Gladiator. Based on this history, please predict the user's rating for the following item: Nikita (1 being lowest and 5 being highest)  
 Output: 1.

Input: Here is the watching history of a user: The Virgin Suicides, Goya in Bordeaux, Snow Falling on Cedars, Gladiator, Hamlet. Based on this history, please predict the user's rating for the following item: The Last September (1 being lowest and 5 being highest)

Output: 5.

Input: Here is the watching history of a user: Rushmore, South Park: Bigger, Longer and Uncut, The Sixth Sense, Who Framed Roger Rabbit?, Trick. Based on this history, please predict the user's rating for the following item: Boys Don't Cry (1 being lowest and 5 being highest)

Output: 4.

- You are a movie recommender system now.

Input: Here is the watching history of a user: Gattaca, Armageddon, Big, Babes in Toyland, Gladiator. Based on this history, please predict the user's rating for the following item: Nikita (1 being lowest and 5 being highest)

Output: 1.

Input: Here is the watching history of a user: The Virgin Suicides, Goya in Bordeaux, Snow Falling on Cedars, Gladiator, Hamlet. Based on this history, please predict the user's rating for the following item: The Last September (1 being lowest and 5 being highest)

Output: 5.

Input: Here is the watching history of a user: Ben-Hur, In the Line of Fire, Seven Samurai, The Wrong Trousers, Groundhog Day. Based on this history, please predict the user's rating for the following item: Ghost (1 being lowest and 5 being highest)

Output: 3.

- You are a movie recommender system now.

Input: Here is the watching history of a user: Gattaca, Armageddon, Big, Babes in Toyland, Gladiator. Based on this history, please predict the user's rating for the following item: Nikita (1 being lowest and 5 being highest)

Output: 1.

Input: Here is the watching history of a user: The Virgin Suicides, Goya in Bordeaux, Snow Falling on Cedars, Gladiator, Hamlet. Based on this history, please predict the user's rating for the following item: The Last September (1 being lowest and 5 being highest)

Output: 5.

Input: Here is the watching history of a user: Mrs. Doubtfire, Mr. Saturday Night, The Twelve Chairs, Nothing in Common, Aladdin and the King of Thieves. Based on this history, please predict the user's rating for the following item: The Third Man (1 being lowest and 5 being highest)

Output: 2.

- You are a movie recommender system now.

Input: Here is the watching history of a user: Gattaca, Armageddon, Big, Babes in Toyland, Gladiator. Based on this history, please predict the user's rating for the following item: Nikita (1 being lowest and 5 being highest)

Output: 1.

Input: Here is the watching history of a user: The Virgin Suicides, Goya in Bordeaux, Snow Falling on Cedars, Gladiator, Hamlet. Based on this history, please predict the user's rating for the following item: The Last September (1 being lowest and 5 being highest)

Output: 5.

Input: Here is the watching history of a user: Mrs. Doubtfire, Mr. Saturday Night, The Twelve Chairs, Nothing in Common, Aladdin and the King of Thieves. Based on this history, please predict the user's rating for the following item: Predator (1 being lowest and 5 being highest)

Output: 1.

## A.7.2 Book.

- You are a book recommender system now.

Input: Here is the reading history of a user: Dress Your Family in Corduroy and Denim, My Age of Anxiety: Fear, Hope, Dread, and the Search for Peace of Mind, Knuffle Bunny: A Cautionary Tale, Don't Let The Pigeon Drive The Bus!, Purplicious (Pinkalicious). Based on this history, please predict the user's rating for the following item: I Know This Much Is True (1 being lowest and 5 being highest)

Output: 1.

Input: Here is the reading history of a user: Hostile Witness, Snake Skin, Solomon vs. Lord, Tough Cookie, The Black Bullet (Sean O'Brien Mystery/Thriller). Based on this history, please predict the user's rating for the following item: Blood Land (1 being lowest and 5 being highest)

Output: 5.

Input: Here is the reading history of a user: Cruel Beauty, Scarlet (Lunar Chronicles, Book 2), Ignite Me (Shatter Me), Pivot Point, Be with Me: A Novel (Wait for You). Based on this history, please predict the user's rating for the following item: Cress (Lunar Chronicles) (1 being lowest and 5 being highest)

Output: 5.

- You are a book recommender system now.

Input: Here is the reading history of a user: Dress Your Family in Corduroy and Denim, My Age of Anxiety: Fear, Hope, Dread, and the Search for Peace of Mind, Knuffle Bunny: A Cautionary Tale, Don't Let The Pigeon Drive The Bus!, Purplicious (Pinkalicious). Based on this history, please predict the user's rating for the following item: I Know This Much Is True (1 being lowest and 5 being highest)

Output: 1.

Input: Here is the reading history of a user: Hostile Witness, Snake Skin, Solomon vs. Lord, Tough Cookie, The Black Bullet (Sean O'Brien Mystery/Thriller). Based on this history, please predict the user's rating for the following item: Blood Land (1 being lowest and 5 being highest)

Output: 5.

Input: Here is the reading history of a user: The Eternity Cure (Blood of Eden), Champion (Legend, #3), Crown of Midnight (Throne of Glass), World After (Penryn & the End of Days, Book 2), Cruel Beauty. Based on this history, please predict the user's rating for the following item: Throne of Glass (1 being lowest and 5 being highest)

Output: 5.

- You are a book recommender system now.

Input: Here is the reading history of a user: Dress Your Family in Corduroy and Denim, My Age of Anxiety: Fear, Hope, Dread, and the Search for Peace of Mind, Knuffle Bunny: A Cautionary Tale, Don't Let The Pigeon Drive The Bus!, Purplicious (Pinkalicious). Based on this history, please predict the user's rating for the following item: I Know This Much Is True (1 being lowest and 5 being highest)

Output: 1.

Input: Here is the reading history of a user: Hostile Witness, Snake Skin, Solomon vs. Lord, Tough Cookie, The Black Bullet (Sean O'Brien Mystery/Thriller). Based on this history, please predict the user's rating for the following item: Blood Land (1 being lowest and 5 being highest)

Output: 5.



Input: Here is the reading history of a user: Reaper's Property, Beautiful Bastard (The Beautiful Series), Beautiful Stranger, Accidentally On Purpose, Destiny Binds (Timber Wolves Trilogy, Book 1). Based on this history, please predict the user's rating for the following item: Seducing Cinderella (Fighting for Love) (1 being lowest and 5 being highest)

Output: 4.

- You are a book recommender system now.

Input: Here is the reading history of a user: Dress Your Family in Corduroy and Denim, My Age of Anxiety: Fear, Hope, Dread, and the Search for Peace of Mind, Knuffle Bunny: A Cautionary Tale, Don't Let The Pigeon Drive The Bus!, Purplicious (Pinkalicious). Based on this history, please predict the user's rating for the following item: I Know This Much Is True (1 being lowest and 5 being highest)

Output: 1.

Input: Here is the reading history of a user: Hostile Witness, Snake Skin, Solomon vs. Lord, Tough Cookie, The Black Bullet (Sean O'Brien Mystery/Thriller). Based on this history, please predict the user's rating for the following item: Blood Land (1 being lowest and 5 being highest)

Output: 5.

Input: Here is the reading history of a user: The Hangman's Daughter, The Perfume Collector: A Novel, Tobacco Road, The Blackhouse: A Novel, Bad Monkey. Based on this history, please predict the user's rating for the following item: Moving Day: A Thriller (1 being lowest and 5 being highest)

Output: 3.

- You are a book recommender system now.

Input: Here is the reading history of a user: Dress Your Family in Corduroy and Denim, My Age of Anxiety: Fear, Hope, Dread, and the Search for Peace of Mind, Knuffle Bunny: A Cautionary Tale, Don't Let The Pigeon Drive The Bus!, Purplicious (Pinkalicious). Based on this history, please predict the user's rating for the following item: I Know This Much Is True (1 being lowest and 5 being highest)

Output: 1.

Input: Here is the reading history of a user: Hostile Witness, Snake Skin, Solomon vs. Lord, Tough Cookie, The Black Bullet (Sean O'Brien Mystery/Thriller). Based on this history, please predict the user's rating for the following item: Blood Land (1 being lowest and 5 being highest)

Output: 5.

Input: Here is the reading history of a user: Flowers for Algernon, Five Days at Memorial: Life and Death in a Storm-Ravaged Hospital, Hollow City (Miss Peregrine's Peculiar Children), The Winter People: A Novel, The Ocean at the End of the Lane: A Novel. Based on this history, please predict the user's rating for the following item: Confessions of a Sociopath: A Life Spent Hiding in Plain Sight (1 being lowest and 5 being highest)

Output: 2.

- You are a book recommender system now.

Input: Here is the reading history of a user: Dress Your Family in Corduroy and Denim, My Age of Anxiety: Fear, Hope, Dread, and the Search for Peace of Mind, Knuffle Bunny: A Cautionary Tale, Don't Let The Pigeon Drive The Bus!, Purplicious (Pinkalicious). Based on this history, please predict the user's rating for the following item: I Know This Much Is True (1 being lowest and 5 being highest)

Output: 1.

Input: Here is the reading history of a user: Hostile Witness, Snake Skin, Solomon vs. Lord, Tough Cookie, The Black Bullet (Sean O'Brien Mystery/Thriller). Based on this history, please predict the user's rating for the following item: Blood Land (1 being lowest and 5 being highest)

Output: 5.

Input: Here is the reading history of a user: The Hangman's Daughter, The Perfume Collector: A Novel, Tobacco Road, The Blackhouse: A Novel, Bad Monkey. Based on this history, please predict the user's rating for the following item: I Hope They Serve Beer In Hell (1 being lowest and 5 being highest)

Output: 1.

### A.7.3 Music.

- You are a music recommender system now.

Input: Here is the listening history of a user: Broken Bells, She & Him - Volume Two, April Uprising, Congratulations, You I Wind Land & Sea. Based on this history, please predict the user's rating for the following item: Momentum (1 being lowest and 5 being highest)

Output: 1.

Input: Here is the listening history of a user: Big Willie Style, Precious, Stan Getz With Laurindo Almeida, Power Clown, Serve Chilled. Based on this history, please predict the user's rating for the following item: C&eacute;u (1 being lowest and 5 being highest)

Output: 5.

Input: Here is the listening history of a user: Our Favorite Songs, Beethoven: Complete Cello Sonatas / Variations on Themes from Die Zauberflote Casals Edition, Igor Stravinsky: The Rite of Spring / Alexander Scriabin: The Poem of Ecstasy, Brahms: Violin Concerto / Mozart: Sinfonia Concertante, Mozart: Great Mass in C minor, K. 427; Exultate, jubilate, K. 165; Ave verum corpus, K. 618. Based on this history, please predict the user's rating for the following item: Mozart: Last 5 Symphonies (1 being lowest and 5 being highest)

Output: 5.

- You are a music recommender system now.

Input: Here is the listening history of a user: Broken Bells, She & Him - Volume Two, April Uprising, Congratulations, You I Wind Land & Sea. Based on this history, please predict the user's rating for the following item: Momentum (1 being lowest and 5 being highest)

Output: 1.

Input: Here is the listening history of a user: Big Willie Style, Precious, Stan Getz With Laurindo Almeida, Power Clown, Serve Chilled. Based on this history, please predict the user's rating for the following item: C&eacute;u (1 being lowest and 5 being highest)

Output: 5.

Input: Here is the listening history of a user: Beethoven: 9 Symphonies, Beethoven: The Piano Concertos - Choral Fantasy / Levin, Gardiner, Handel - Messiah, Beethoven: Complete Symphonies, Beethoven: The Symphonies. Based on this history, please predict the user's rating for the following item: Beethoven: The Symphonies (1 being lowest and 5 being highest)

Output: 5.

- You are a music recommender system now.

Input: Here is the listening history of a user: Broken Bells, She & Him - Volume Two, April Uprising, Congratulations, You I Wind Land & Sea. Based on this history, please predict the user's rating for the following item: Momentum (1 being lowest and 5 being highest)

Output: 1.

Input: Here is the listening history of a user: Big Willie Style, Precious, Stan Getz With Laurindo Almeida, Power Clown, Serve Chilled. Based on this history, please predict the user's rating for the following item: C&eacute;u (1 being lowest and 5 being highest)

Output: 5.

Input: Here is the listening history of a user: New Miserable Experience, We Were Dead Before The Ship Even Sank, Stadium Arcadium, Dirt Farmer, April. Based on this history, please predict the user's rating for the following item: Wrecking Ball (1 being lowest and 5 being highest)

Output: 4.

- You are a music recommender system now.

Input: Here is the listening history of a user: Broken Bells, She & Him - Volume Two, April Uprising, Congratulations, You I Wind Land & Sea. Based on this history, please predict the user's rating for the following item: Momentum (1 being lowest and 5 being highest)

Output: 1.

Input: Here is the listening history of a user: Big Willie Style, Precious, Stan Getz With Laurindo Almeida, Power Clown, Serve Chilled. Based on this history, please predict the user's rating for the following item: C&eacute;u (1 being lowest and 5 being highest)

Output: 5.

Input: Here is the listening history of a user: Comfort Woman, Miracles, The Best of Andrae, Still Warm, I Am. Based on this history, please predict the user's rating for the following item: Musicology (1 being lowest and 5 being highest)

Output: 3.

- You are a music recommender system now.

Input: Here is the listening history of a user: Broken Bells, She & Him - Volume Two, April Uprising, Congratulations, You I Wind Land & Sea. Based on this history, please predict the user's rating for the following item: Momentum (1 being lowest and 5 being highest)

Output: 1.

Input: Here is the listening history of a user: Big Willie Style, Precious, Stan Getz With Laurindo Almeida, Power Clown, Serve Chilled. Based on this history, please predict the user's rating for the following item: C&eacute;u (1 being lowest and 5 being highest)

Output: 5.

Input: Here is the listening history of a user: Wild Flag, Moroccan Roll, Cool Struttin', First And Last And Always, Pilgrim. Based on this history, please predict the user's rating for the following item: Philosophy Of The World (1 being lowest and 5 being highest)

Output: 2.

- You are a music recommender system now.

Input: Here is the listening history of a user: Broken Bells, She & Him - Volume Two, April Uprising, Congratulations, You I Wind Land & Sea. Based on this history, please predict the user's rating for the following item:

Momentum (1 being lowest and 5 being highest)

Output: 1.

Input: Here is the listening history of a user: Big Willie Style, Precious, Stan Getz With Laurindo Almeida, Power Clown, Serve Chilled. Based on this history, please predict the user's rating for the following item: C&eacute;u (1 being lowest and 5 being highest)

Output: 5.

Input: Here is the listening history of a user: Megalithic Symphony, How I Go, Black Country Communion 2, El Camino, Blunderbuss. Based on this history, please predict the user's rating for the following item: Educated Horses (1 being lowest and 5 being highest)

Output: 1.

#### A.7.4 News.

- You are a news recommender system now.

Input: Here is the reading history of a user: 'At 237 Lbs., I Was Embarrassed To Go To The Gym. So I Did An At-Home BeachBody Program And Lost 117 Lbs.', Should You Try the Controversial Cabbage Soup Diet? See What Experts Have to Say, How Much You Can Change Your Abs in 2 Weeks, It's Easy to Overdose on Acetaminophen and It Can Kill You, New Study Says, The keto diet is hard work but this hack makes it so much easier. Based on this history, please predict the user's rating for the following item: Lone Waffle House employee gets a helping hand from customers (1 being lowest and 5 being highest)

Output: 1.

Input: Here is the reading history of a user: How to Avoid Airbnb Scams and Find Legit Vacation Rentals Online, Watch: 'The View' Versus Donald Trump Jr.: Loud, Low Blows, Politics, Scandals And Great TV, Pete the Planner: Could a retiree outlive their savings even with a part time job? Possibly., Jim Edmonds Calls Police on Meghan King Edmonds Out of "Concern" For Their Kids, Henry Golding assumed costar Matthew McConaughey 'hated' him the first time they met on set: 'My world just imploded'. Based on this history, please predict the user's rating for the following item: Stephanie Parze's Car Is at Home. So Is Her Phone. But She's Missing. (1 being lowest and 5 being highest)

Output: 5.

Input: Here is the reading history of a user: 2020 Shelby GT500 Aero Performance & Cooling, Pregnant U.S. women's soccer star Alex Morgan still plans to play in 2020 Summer Olympics, Confirmed: Even Base 2020 C8 Corvettes Hit 60 MPH in 3.0 Seconds Flat, EarthRoamer XV-HD Super Camper Can Be Yours for \$1.7 Million, Snow crab sells for record price in Japan. Based on this history, please predict the user's rating for the following item: 2020 Ford Mustang Shelby GT350 vs. GT500: Which Is the Better Sports Car? (1 being lowest and 5 being highest)

Output: 5.

- You are a news recommender system now.

Input: Here is the reading history of a user: 'At 237 Lbs., I Was Embarrassed To Go To The Gym. So I Did An At-Home BeachBody Program And Lost 117 Lbs.', Should You Try the Controversial Cabbage Soup Diet? See What Experts Have to Say, How Much You Can Change Your Abs in 2 Weeks, It's Easy to Overdose on Acetaminophen and It Can Kill You, New Study Says, The keto diet is hard work but this hack makes it so much easier. Based on this history, please predict the user's rating for the following item: Lone Waffle House

employee gets a helping hand from customers (1 being lowest and 5 being highest)

Output: 1.

Input: Here is the reading history of a user: How to Avoid Airbnb Scams and Find Legit Vacation Rentals Online, Watch: 'The View' Versus Donald Trump Jr.: Loud, Low Blows, Politics, Scandals And Great TV, Pete the Planner: Could a retiree outlive their savings even with a part time job? Possibly., Jim Edmonds Calls Police on Meghan King Edmonds Out of "Concern" For Their Kids, Henry Golding assumed costar Matthew McConaughey 'hated' him the first time they met on set: 'My world just imploded'. Based on this history, please predict the user's rating for the following item: Stephanie Parze's Car Is at Home. So Is Her Phone. But She's Missing. (1 being lowest and 5 being highest)

Output: 5.

Input: Here is the reading history of a user: John Witherspoon Dies: Comedian & 'Friday' Star Was 77, Chick-fil-A Apologizes to Customers for Promoting National Sandwich Day Which Is on a Sunday, Trailer - Star Wars: The Rise of Skywalker, 31 TV reboots, remakes, and spin-offs that are in the works, Luke DeCock: After Cole Anthony's spectacular UNC debut, he's not just talented. He's indispensable.. Based on this history, please predict the user's rating for the following item: Opinion: Colin Kaepernick is about to get what he deserves: a chance (1 being lowest and 5 being highest)

Output: 4.

- You are a news recommender system now.

Input: Here is the reading history of a user: 'At 237 Lbs., I Was Embarrassed To Go To The Gym. So I Did An At-Home BeachBody Program And Lost 117 Lbs.', Should You Try the Controversial Cabbage Soup Diet? See What Experts Have to Say, How Much You Can Change Your Abs in 2 Weeks, It's Easy to Overdose on Acetaminophen and It Can Kill You, New Study Says, The keto diet is hard work but this hack makes it so much easier. Based on this history, please predict the user's rating for the following item: Lone Waffle House employee gets a helping hand from customers (1 being lowest and 5 being highest)

Output: 1.

Input: Here is the reading history of a user: How to Avoid Airbnb Scams and Find Legit Vacation Rentals Online, Watch: 'The View' Versus Donald Trump Jr.: Loud, Low Blows, Politics, Scandals And Great TV, Pete the Planner: Could a retiree outlive their savings even with a part time job? Possibly., Jim Edmonds Calls Police on Meghan King Edmonds Out of "Concern" For Their Kids, Henry Golding assumed costar Matthew McConaughey 'hated' him the first time they met on set: 'My world just imploded'. Based on this history, please predict the user's rating for the following item: Stephanie Parze's Car Is at Home. So Is Her Phone. But She's Missing. (1 being lowest and 5 being highest)

Output: 5.

Input: Here is the reading history of a user: Oprah Winfrey Just Bought Jeff Bridges' Ranch in Montecito, Girlfriend testifies at trial of man in death of his fiancée, One of FBI's Most Wanted fugitives offers surrender, Dog Throws A Total Tantrum When She Realizes Mom Wants To Take The Stairs, A body-language expert says Meghan Markle is "politely disconnecting" from the public, and honestly, we would too. Based on this history, please predict the user's rating for the following item: GoFundMe Honors Good Samaritans at First Heroes Celebration: 'Amazing Things Are Happening' (1 being lowest and 5 being highest)

Output: 4.

- You are a news recommender system now.

Input: Here is the reading history of a user: 'At 237 Lbs., I Was Embarrassed To Go To The Gym. So I Did An At-Home BeachBody Program And Lost 117 Lbs.', Should You Try the Controversial Cabbage Soup Diet? See What Experts Have to Say, How Much You Can Change Your Abs in 2 Weeks, It's Easy to Overdose on Acetaminophen and It Can Kill You, New Study Says, The keto diet is hard work but this hack makes it so much easier. Based on this history, please predict the user's rating for the following item: Lone Waffle House employee gets a helping hand from customers (1 being lowest and 5 being highest)

Output: 1.

Input: Here is the reading history of a user: How to Avoid Airbnb Scams and Find Legit Vacation Rentals Online, Watch: 'The View' Versus Donald Trump Jr.: Loud, Low Blows, Politics, Scandals And Great TV, Pete the Planner: Could a retiree outlive their savings even with a part time job? Possibly., Jim Edmonds Calls Police on Meghan King Edmonds Out of "Concern" For Their Kids, Henry Golding assumed costar Matthew McConaughey 'hated' him the first time they met on set: 'My world just imploded'. Based on this history, please predict the user's rating for the following item: Stephanie Parze's Car Is at Home. So Is Her Phone. But She's Missing. (1 being lowest and 5 being highest)

Output: 5.

Input: Here is the reading history of a user: Kevin Spacey Won't Be Charged in Sexual Assault Case After Accuser Dies, Ian Ziering's Wife Erin Ludwig Files for Divorce Days After Split Announcement, A wave crashed over a couple during their beach wedding photo shoot, and now the stunning picture is going viral, Jessica Simpson's latest Birdie Mae post suggests she's done having kids, plus more news, Kate & Meghan Head to Separate Events in Gorgeous Blue Outfits. Based on this history, please predict the user's rating for the following item: Opinion: Colin Kaepernick is about to get what he deserves: a chance (1 being lowest and 5 being highest)

Output: 3.

- You are a news recommender system now.

Input: Here is the reading history of a user: 'At 237 Lbs., I Was Embarrassed To Go To The Gym. So I Did An At-Home BeachBody Program And Lost 117 Lbs.', Should You Try the Controversial Cabbage Soup Diet? See What Experts Have to Say, How Much You Can Change Your Abs in 2 Weeks, It's Easy to Overdose on Acetaminophen and It Can Kill You, New Study Says, The keto diet is hard work but this hack makes it so much easier. Based on this history, please predict the user's rating for the following item: Lone Waffle House employee gets a helping hand from customers (1 being lowest and 5 being highest)

Output: 1.

Input: Here is the reading history of a user: How to Avoid Airbnb Scams and Find Legit Vacation Rentals Online, Watch: 'The View' Versus Donald Trump Jr.: Loud, Low Blows, Politics, Scandals And Great TV, Pete the Planner: Could a retiree outlive their savings even with a part time job? Possibly., Jim Edmonds Calls Police on Meghan King Edmonds Out of "Concern" For Their Kids, Henry Golding assumed costar Matthew McConaughey 'hated' him the first time they met on set: 'My world just imploded'. Based on this history, please predict the user's rating for the following item: Stephanie Parze's Car Is at Home. So Is Her Phone. But She's Missing. (1 being lowest and 5 being highest)

Output: 5.

Input: Here is the reading history of a user: Impeachment haunts the campaign trail as candidates compete against the bigger story, Alaska mine could generate \$1 billion a year: Is it worth the risk to salmon?, Trump Taxes: Appeals Court Rules President Must Turn Over 8 Years of Tax Returns, Buffett has \$128 billion in cash,

and analysts can't figure out why he isn't spending it, The Justice Department is fishing for details about the anonymous 'resistance' op-ed writer. Based on this history, please predict the user's rating for the following item: AirFly Pro can stream Bluetooth audio to and from any 3.5mm jack (1 being lowest and 5 being highest)  
Output: 2.

- You are a news recommender system now.

Input: Here is the reading history of a user: 'At 237 Lbs., I Was Embarrassed To Go To The Gym. So I Did An At-Home BeachBody Program And Lost 117 Lbs.', Should You Try the Controversial Cabbage Soup Diet? See What Experts Have to Say, How Much You Can Change Your Abs in 2 Weeks, It's Easy to Overdose on Acetaminophen and It Can Kill You, New Study Says, The keto diet is hard work but this hack makes it so much easier. Based on this history, please predict the user's rating for the following item: Lone Waffle House employee gets a helping hand from customers (1 being lowest and 5 being highest)  
Output: 1.

Input: Here is the reading history of a user: How to Avoid Airbnb Scams and Find Legit Vacation Rentals Online, Watch: 'The View' Versus Donald Trump Jr.: Loud, Low Blows, Politics, Scandals And Great TV, Pete the Planner: Could a retiree outlive their savings even with a part time job? Possibly., Jim Edmonds Calls Police on Meghan King Edmonds Out of "Concern" For Their Kids, Henry Golding assumed costar Matthew McConaughey 'hated' him the first time they met on set: 'My world just imploded'. Based on this history, please predict the user's rating for the following item: Stephanie Parze's Car Is at Home. So Is Her Phone. But She's Missing. (1 being lowest and 5 being highest)  
Output: 5.

Input: Here is the reading history of a user: The Camp Fire's 85th victim: Nearly a year later, authorities still have no explanation, Roger Stone Lied to Congress After Helping Trump Win, Prosecutor Says, Off-duty Chicago police officer in clown makeup arrested on suspicion of slapping on-duty officer, 13-year-old murder suspect escapes from juvenile courthouse: Authorities, Holocaust survivor under guard amid death threats. Based on this history, please predict the user's rating for the following item: 'Charlie's Angels' stars: Where are they now? (1 being lowest and 5 being highest)  
Output: 1.

## A.8 gpt-3.5-turbo with pairwise

### A.8.1 Movie.

- You are a movie recommender system now.

Input: Here is the watching history of a user: Gattaca, Armageddon, Big, Babes in Toyland, Gladiator. Based on this history, would this user prefer Donnie Brasco or Con Air? Answer Choices: (A) Donnie Brasco (B) Con Air

Output: The answer index is A.

Input: Here is the watching history of a user: The Adventures of Milo and Otis, The Pelican Brief, Dinosaur, Air Force One, The First Wives Club. Based on this history, would this user prefer Robin Hood: Men in Tights or George of the Jungle? Answer Choices: (A) Robin Hood: Men in Tights (B) George of the Jungle

Output: The answer index is B.

- You are a movie recommender system now.



3797 Input: Here is the watching history of a user: Gattaca, Armageddon, Big, Babes in Toyland, Gladiator. Based on  
 3798 this history, would this user prefer Donnie Brasco or Con Air? Answer Choices: (A) **Donnie Brasco** (B) Con  
 3799 Air  
 3800 Output: The answer index is A.  
 3801  
 3802 Input: Here is the watching history of a user: The Adventures of Milo and Otis, The Pelican Brief, Dinosaur, Air  
 3803 Force One, The First Wives Club. Based on this history, would this user prefer George of the Jungle or Tom and  
 3804 Huck? Answer Choices: (A) **George of the Jungle** (B) Tom and Huck  
 3805 Output: The answer index is A.  
 3806  
 3807 • You are a movie recommender system now.  
 3808 Input: Here is the watching history of a user: Gattaca, Armageddon, Big, Babes in Toyland, Gladiator. Based on  
 3809 this history, would this user prefer Donnie Brasco or Con Air? Answer Choices: (A) **Donnie Brasco** (B) Con  
 3810 Air  
 3811 Output: The answer index is A.  
 3812  
 3813 Input: Here is the watching history of a user: Ben-Hur, In the Line of Fire, Seven Samurai, The Wrong Trousers,  
 3814 Groundhog Day. Based on this history, would this user prefer Bob Roberts or Heathers? Answer Choices: (A)  
 3815 **Bob Roberts** (B) Heathers  
 3816 Output: The answer index is A.  
 3817  
 3818 • You are a movie recommender system now.  
 3819 Input: Here is the watching history of a user: Gattaca, Armageddon, Big, Babes in Toyland, Gladiator. Based on  
 3820 this history, would this user prefer Donnie Brasco or Con Air? Answer Choices: (A) **Donnie Brasco** (B) Con  
 3821 Air  
 3822 Output: The answer index is A.  
 3823  
 3824 Input: Here is the watching history of a user: Ben-Hur, In the Line of Fire, Seven Samurai, The Wrong Trousers,  
 3825 Groundhog Day. Based on this history, would this user prefer Backdraft or Bob Roberts? Answer Choices: (A)  
 3826 Backdraft (B) **Bob Roberts**  
 3827 Output: The answer index is A.  
 3828  
 3829 • You are a movie recommender system now.  
 3830 Input: Here is the watching history of a user: Gattaca, Armageddon, Big, Babes in Toyland, Gladiator. Based on  
 3831 this history, would this user prefer Donnie Brasco or Con Air? Answer Choices: (A) **Donnie Brasco** (B) Con  
 3832 Air  
 3833 Output: The answer index is A.  
 3834  
 3835 Input: Here is the watching history of a user: Ben-Hur, In the Line of Fire, Seven Samurai, The Wrong Trousers,  
 3836 Groundhog Day. Based on this history, would this user prefer Backdraft or Bob Roberts? Answer Choices: (A)  
 3837 Backdraft (B) **Bob Roberts**  
 3838 Output: The answer index is A.  
 3839  
 3840 • You are a movie recommender system now.  
 3841 Input: Here is the watching history of a user: Gattaca, Armageddon, Big, Babes in Toyland, Gladiator. Based on  
 3842 this history, would this user prefer Donnie Brasco or Con Air? Answer Choices: (A) **Donnie Brasco** (B) Con  
 3843 Air  
 3844 Output: The answer index is A.  
 3845  
 3846  
 3847  
 3848

Input: Here is the watching history of a user: Ben-Hur, In the Line of Fire, Seven Samurai, The Wrong Trousers, Groundhog Day. Based on this history, would this user prefer Bob Roberts or Eat Drink Man Woman? Answer Choices: **(A) Bob Roberts** (B) Eat Drink Man Woman  
Output: The answer index is **B**.

#### A.8.2 Book.

- You are a book recommender system now.

Input: Here is the reading history of a user: Dress Your Family in Corduroy and Denim, My Age of Anxiety: Fear, Hope, Dread, and the Search for Peace of Mind, Knuffle Bunny: A Cautionary Tale, Don't Let The Pigeon Drive The Bus!, Purplicious (Pinkalicious). Based on this history, would this user prefer Something Other Than God: How I Passionately Sought Happiness and Accidentally Found It or Moms Who Drink and Swear: True Tales of Loving My Kids While Losing My Mind? Answer Choices: **(A) Something Other Than God: How I Passionately Sought Happiness and Accidentally Found It** (B) Moms Who Drink and Swear: True Tales of Loving My Kids While Losing My Mind  
Output: The answer index is **A**.

Input: Here is the reading history of a user: Heft: A Novel, Knocking on Heaven's Door: The Path to a Better Way of Death, How to Fail at Almost Everything and Still Win Big: Kind of the Story of My Life, Hatching Twitter: A True Story of Money, Power, Friendship, and Betrayal, Flash Boys. Based on this history, would this user prefer A Long Way Down or To Sell Is Human: The Surprising Truth About Moving Others? Answer Choices: (A) A Long Way Down **(B) To Sell Is Human: The Surprising Truth About Moving Others**  
Output: The answer index is **B**.

- You are a book recommender system now.

Input: Here is the reading history of a user: Dress Your Family in Corduroy and Denim, My Age of Anxiety: Fear, Hope, Dread, and the Search for Peace of Mind, Knuffle Bunny: A Cautionary Tale, Don't Let The Pigeon Drive The Bus!, Purplicious (Pinkalicious). Based on this history, would this user prefer Something Other Than God: How I Passionately Sought Happiness and Accidentally Found It or Moms Who Drink and Swear: True Tales of Loving My Kids While Losing My Mind? Answer Choices: **(A) Something Other Than God: How I Passionately Sought Happiness and Accidentally Found It** (B) Moms Who Drink and Swear: True Tales of Loving My Kids While Losing My Mind  
Output: The answer index is **A**.

Input: Here is the reading history of a user: Heft: A Novel, Knocking on Heaven's Door: The Path to a Better Way of Death, How to Fail at Almost Everything and Still Win Big: Kind of the Story of My Life, Hatching Twitter: A True Story of Money, Power, Friendship, and Betrayal, Flash Boys. Based on this history, would this user prefer To Sell Is Human: The Surprising Truth About Moving Others or The Talent Code: Greatness Isn't Born. It's Grown.? Answer Choices: **(A) To Sell Is Human: The Surprising Truth About Moving Others** (B) The Talent Code: Greatness Isn't Born. It's Grown.  
Output: The answer index is **A**.

- You are a book recommender system now.

Input: Here is the reading history of a user: Dress Your Family in Corduroy and Denim, My Age of Anxiety: Fear, Hope, Dread, and the Search for Peace of Mind, Knuffle Bunny: A Cautionary Tale, Don't Let The Pigeon Drive The Bus!, Purplicious (Pinkalicious). Based on this history, would this user prefer Something Other Than

God: How I Passionately Sought Happiness and Accidentally Found It or Moms Who Drink and Swear: True Tales of Loving My Kids While Losing My Mind? Answer Choices: (A) **Something Other Than God: How I Passionately Sought Happiness and Accidentally Found It** (B) Moms Who Drink and Swear: True Tales of Loving My Kids While Losing My Mind

Output: The answer index is A.

Input: Here is the reading history of a user: Inferno, An Abundance of Katherines, The Son, Joyland, The Guns at Last Light: The War in Western Europe, 1944-1945 (Liberation Trilogy). Based on this history, would this user prefer The Execution of Noa P. Singleton: A Novel or Allegiant (Divergent, #3)? Answer Choices: (A) The Execution of Noa P. Singleton: A Novel (B) **Allegiant (Divergent, #3)**

Output: The answer index is B.

- You are a book recommender system now.

Input: Here is the reading history of a user: Dress Your Family in Corduroy and Denim, My Age of Anxiety: Fear, Hope, Dread, and the Search for Peace of Mind, Knuffle Bunny: A Cautionary Tale, Don't Let The Pigeon Drive The Bus!, Purplicious (Pinkalicious). Based on this history, would this user prefer Something Other Than God: How I Passionately Sought Happiness and Accidentally Found It or Moms Who Drink and Swear: True Tales of Loving My Kids While Losing My Mind? Answer Choices: (A) **Something Other Than God: How I Passionately Sought Happiness and Accidentally Found It** (B) Moms Who Drink and Swear: True Tales of Loving My Kids While Losing My Mind

Output: The answer index is A.

Input: Here is the reading history of a user: Inferno, An Abundance of Katherines, The Son, Joyland, The Guns at Last Light: The War in Western Europe, 1944-1945 (Liberation Trilogy). Based on this history, would this user prefer Allegiant (Divergent, #3) or No Easy Day: The Autobiography of a Navy Seal: The Firsthand Account of the Mission That Killed Osama Bin Laden? Answer Choices: (A) **Allegiant (Divergent, #3)** (B) No Easy Day: The Autobiography of a Navy Seal: The Firsthand Account of the Mission That Killed Osama Bin Laden

Output: The answer index is B.

- You are a book recommender system now.

Input: Here is the reading history of a user: Dress Your Family in Corduroy and Denim, My Age of Anxiety: Fear, Hope, Dread, and the Search for Peace of Mind, Knuffle Bunny: A Cautionary Tale, Don't Let The Pigeon Drive The Bus!, Purplicious (Pinkalicious). Based on this history, would this user prefer Something Other Than God: How I Passionately Sought Happiness and Accidentally Found It or Moms Who Drink and Swear: True Tales of Loving My Kids While Losing My Mind? Answer Choices: (A) **Something Other Than God: How I Passionately Sought Happiness and Accidentally Found It** (B) Moms Who Drink and Swear: True Tales of Loving My Kids While Losing My Mind

Output: The answer index is A.

Input: Here is the reading history of a user: Inferno, An Abundance of Katherines, The Son, Joyland, The Guns at Last Light: The War in Western Europe, 1944-1945 (Liberation Trilogy). Based on this history, would this user prefer The Geography of Bliss: One Grump's Search for the Happiest Places in the World or Allegiant (Divergent, #3)? Answer Choices: (A) The Geography of Bliss: One Grump's Search for the Happiest Places in the World (B) **Allegiant (Divergent, #3)**

Output: The answer index is A.

- You are a book recommender system now.

Input: Here is the reading history of a user: Dress Your Family in Corduroy and Denim, My Age of Anxiety: Fear, Hope, Dread, and the Search for Peace of Mind, Knuffle Bunny: A Cautionary Tale, Don't Let The Pigeon Drive The Bus!, Purplicious (Pinkalicious). Based on this history, would this user prefer Something Other Than God: How I Passionately Sought Happiness and Accidentally Found It or Moms Who Drink and Swear: True Tales of Loving My Kids While Losing My Mind? Answer Choices: **(A) Something Other Than God: How I Passionately Sought Happiness and Accidentally Found It** (B) Moms Who Drink and Swear: True Tales of Loving My Kids While Losing My Mind

Output: The answer index is A.

Input: Here is the reading history of a user: Inferno, An Abundance of Katherines, The Son, Joyland, The Guns at Last Light: The War in Western Europe, 1944-1945 (Liberation Trilogy). Based on this history, would this user prefer Allegiant (Divergent, #3) or No Easy Day: The Autobiography of a Navy Seal: The Firsthand Account of the Mission That Killed Osama Bin Laden? Answer Choices: **(A) Allegiant (Divergent, #3)** (B) No Easy Day: The Autobiography of a Navy Seal: The Firsthand Account of the Mission That Killed Osama Bin Laden

Output: The answer index is B.

#### A.8.3 Music.

- You are a music recommender system now.

Input: Here is the listening history of a user: Broken Bells, She & Him - Volume Two, April Uprising, Congratulations, You I Wind Land & Sea. Based on this history, would this user prefer This Is Happening or Thor? Answer Choices: **(A) This Is Happening** (B) Thor

Output: The answer index is A.

Input: Here is the listening history of a user: New Miserable Experience, We Were Dead Before The Ship Even Sank, Stadium Arcadium, Dirt Farmer, April. Based on this history, would this user prefer Off the Ground or I Am Me? Answer Choices: **(A) Off the Ground** (B) I Am Me

Output: The answer index is A.

- You are a music recommender system now.

Input: Here is the listening history of a user: Broken Bells, She & Him - Volume Two, April Uprising, Congratulations, You I Wind Land & Sea. Based on this history, would this user prefer This Is Happening or Thor? Answer Choices: **(A) This Is Happening** (B) Thor

Output: The answer index is A.

Input: Here is the listening history of a user: New Miserable Experience, We Were Dead Before The Ship Even Sank, Stadium Arcadium, Dirt Farmer, April. Based on this history, would this user prefer The Lost Notebooks of Hank Williams or Off the Ground? Answer Choices: (A) The Lost Notebooks of Hank Williams **(B) Off the Ground**

Output: The answer index is B.

- You are a music recommender system now.

Input: Here is the listening history of a user: Broken Bells, She & Him - Volume Two, April Uprising, Congratulations, You I Wind Land & Sea. Based on this history, would this user prefer This Is Happening or Thor? Answer Choices: **(A) This Is Happening** (B) Thor

Output: The answer index is A.

Input: Here is the listening history of a user: New Miserable Experience, We Were Dead Before The Ship Even Sank, Stadium Arcadium, Dirt Farmer, April. Based on this history, would this user prefer Wincing the Night Away or Off the Ground? Answer Choices: (A) Wincing the Night Away **(B) Off the Ground**

Output: The answer index is **A**.

- You are a music recommender system now.

Input: Here is the listening history of a user: Broken Bells, She & Him - Volume Two, April Uprising, Congratulations, You I Wind Land & Sea. Based on this history, would this user prefer This Is Happening or Thor?

Answer Choices: **(A) This Is Happening** (B) Thor

Output: The answer index is **A**.

Input: Here is the listening history of a user: New Miserable Experience, We Were Dead Before The Ship Even Sank, Stadium Arcadium, Dirt Farmer, April. Based on this history, would this user prefer Off the Ground or I Am Me? Answer Choices: **(A) Off the Ground** (B) I Am Me

Output: The answer index is **A**.

- You are a music recommender system now.

Input: Here is the listening history of a user: Broken Bells, She & Him - Volume Two, April Uprising, Congratulations, You I Wind Land & Sea. Based on this history, would this user prefer This Is Happening or Thor?

Answer Choices: **(A) This Is Happening** (B) Thor

Output: The answer index is **A**.

Input: Here is the listening history of a user: Comfort Woman, Miracles, The Best of Andrae, Still Warm, I Am. Based on this history, would this user prefer Oak Park: 921'06 or He Had A Hat? Answer Choices: **(A) Oak Park: 921'06** (B) He Had A Hat

Output: The answer index is **B**.

- You are a music recommender system now.

Input: Here is the listening history of a user: Broken Bells, She & Him - Volume Two, April Uprising, Congratulations, You I Wind Land & Sea. Based on this history, would this user prefer This Is Happening or Thor?

Answer Choices: **(A) This Is Happening** (B) Thor

Output: The answer index is **A**.

Input: Here is the listening history of a user: Comfort Woman, Miracles, The Best of Andrae, Still Warm, I Am. Based on this history, would this user prefer Musicology or Oak Park: 921'06? Answer Choices: (A) Musicology **(B) Oak Park: 921'06**

Output: The answer index is **A**.

#### A.8.4 News.

- You are a news recommender system now.

Input: Here is the reading history of a user: 'At 237 Lbs., I Was Embarrassed To Go To The Gym. So I Did An At-Home BeachBody Program And Lost 117 Lbs.', Should You Try the Controversial Cabbage Soup Diet? See What Experts Have to Say, How Much You Can Change Your Abs in 2 Weeks, It's Easy to Overdose on Acetaminophen and It Can Kill You, New Study Says, The keto diet is hard work but this hack makes it so much easier. Based on this history, would this user prefer Teresa Giudice Gives Advice to Lori Loughlin as She Faces Prison in College Admissions Scandal (Exclusive) or Lone Waffle House employee gets a helping hand from customers? Answer Choices: **(A) Teresa Giudice Gives Advice to Lori Loughlin as She Faces**

**Prison in College Admissions Scandal (Exclusive)** (B) Lone Waffle House employee gets a helping hand from customers

Output: The answer index is A.

Input: Here is the reading history of a user: Kevin Spacey Won't Be Charged in Sexual Assault Case After Accuser Dies, Ian Ziering's Wife Erin Ludwig Files for Divorce Days After Split Announcement, A wave crashed over a couple during their beach wedding photo shoot, and now the stunning picture is going viral, Jessica Simpson's latest Birdie Mae post suggests she's done having kids, plus more news, Kate & Meghan Head to Separate Events in Gorgeous Blue Outfits. Based on this history, would this user prefer Celebrity PDA of 2019 or Opinion: Colin Kaepernick is about to get what he deserves: a chance? Answer Choices: (A) Celebrity PDA of 2019 (B) **Opinion: Colin Kaepernick is about to get what he deserves: a chance**

Output: The answer index is B.

- You are a news recommender system now.

Input: Here is the reading history of a user: 'At 237 Lbs., I Was Embarrassed To Go To The Gym. So I Did An At-Home BeachBody Program And Lost 117 Lbs.', Should You Try the Controversial Cabbage Soup Diet? See What Experts Have to Say, How Much You Can Change Your Abs in 2 Weeks, It's Easy to Overdose on Acetaminophen and It Can Kill You, New Study Says, The keto diet is hard work but this hack makes it so much easier. Based on this history, would this user prefer Teresa Giudice Gives Advice to Lori Loughlin as She Faces Prison in College Admissions Scandal (Exclusive) or Lone Waffle House employee gets a helping hand from customers? Answer Choices: (A) **Teresa Giudice Gives Advice to Lori Loughlin as She Faces Prison in College Admissions Scandal (Exclusive)** (B) Lone Waffle House employee gets a helping hand from customers

Output: The answer index is A.

Input: Here is the reading history of a user: Kevin Spacey Won't Be Charged in Sexual Assault Case After Accuser Dies, Ian Ziering's Wife Erin Ludwig Files for Divorce Days After Split Announcement, A wave crashed over a couple during their beach wedding photo shoot, and now the stunning picture is going viral, Jessica Simpson's latest Birdie Mae post suggests she's done having kids, plus more news, Kate & Meghan Head to Separate Events in Gorgeous Blue Outfits. Based on this history, would this user prefer Opinion: Colin Kaepernick is about to get what he deserves: a chance or How much turkey do you need to buy per person?? Answer Choices: (A) **Opinion: Colin Kaepernick is about to get what he deserves: a chance** (B) How much turkey do you need to buy per person?

Output: The answer index is A.

- You are a news recommender system now.

Input: Here is the reading history of a user: 'At 237 Lbs., I Was Embarrassed To Go To The Gym. So I Did An At-Home BeachBody Program And Lost 117 Lbs.', Should You Try the Controversial Cabbage Soup Diet? See What Experts Have to Say, How Much You Can Change Your Abs in 2 Weeks, It's Easy to Overdose on Acetaminophen and It Can Kill You, New Study Says, The keto diet is hard work but this hack makes it so much easier. Based on this history, would this user prefer Teresa Giudice Gives Advice to Lori Loughlin as She Faces Prison in College Admissions Scandal (Exclusive) or Lone Waffle House employee gets a helping hand from customers? Answer Choices: (A) **Teresa Giudice Gives Advice to Lori Loughlin as She Faces Prison in College Admissions Scandal (Exclusive)** (B) Lone Waffle House employee gets a helping hand



from customers

Output: The answer index is A.

Input: Here is the reading history of a user: John Witherspoon Dies: Comedian & 'Friday' Star Was 77, Chick-fil-A Apologizes to Customers for Promoting National Sandwich Day Which Is on a Sunday, Trailer - Star Wars: The Rise of Skywalker, 31 TV reboots, remakes, and spin-offs that are in the works, Luke DeCock: After Cole Anthony's spectacular UNC debut, he's not just talented. He's indispensable.. Based on this history, would this user prefer 30 Best Black Friday Deals from Costco or Opinion: Colin Kaepernick is about to get what he deserves: a chance? Answer Choices: (A) 30 Best Black Friday Deals from Costco **(B) Opinion: Colin Kaepernick is about to get what he deserves: a chance**

Output: The answer index is B.

- You are a news recommender system now.

Input: Here is the reading history of a user: 'At 237 Lbs., I Was Embarrassed To Go To The Gym. So I Did An At-Home BeachBody Program And Lost 117 Lbs.', Should You Try the Controversial Cabbage Soup Diet? See What Experts Have to Say, How Much You Can Change Your Abs in 2 Weeks, It's Easy to Overdose on Acetaminophen and It Can Kill You, New Study Says, The keto diet is hard work but this hack makes it so much easier. Based on this history, would this user prefer Teresa Giudice Gives Advice to Lori Loughlin as She Faces Prison in College Admissions Scandal (Exclusive) or Lone Waffle House employee gets a helping hand from customers? Answer Choices: **(A) Teresa Giudice Gives Advice to Lori Loughlin as She Faces Prison in College Admissions Scandal (Exclusive)** (B) Lone Waffle House employee gets a helping hand from customers

Output: The answer index is A.

Input: Here is the reading history of a user: John Witherspoon Dies: Comedian & 'Friday' Star Was 77, Chick-fil-A Apologizes to Customers for Promoting National Sandwich Day Which Is on a Sunday, Trailer - Star Wars: The Rise of Skywalker, 31 TV reboots, remakes, and spin-offs that are in the works, Luke DeCock: After Cole Anthony's spectacular UNC debut, he's not just talented. He's indispensable.. Based on this history, would this user prefer Opinion: Colin Kaepernick is about to get what he deserves: a chance or Pete Davidson, Kaia Gerber Are Dating, Trying to Stay 'Low Profile'? Answer Choices: **(A) Opinion: Colin Kaepernick is about to get what he deserves: a chance** (B) Pete Davidson, Kaia Gerber Are Dating, Trying to Stay 'Low Profile'

Output: The answer index is B.

- You are a news recommender system now.

Input: Here is the reading history of a user: 'At 237 Lbs., I Was Embarrassed To Go To The Gym. So I Did An At-Home BeachBody Program And Lost 117 Lbs.', Should You Try the Controversial Cabbage Soup Diet? See What Experts Have to Say, How Much You Can Change Your Abs in 2 Weeks, It's Easy to Overdose on Acetaminophen and It Can Kill You, New Study Says, The keto diet is hard work but this hack makes it so much easier. Based on this history, would this user prefer Teresa Giudice Gives Advice to Lori Loughlin as She Faces Prison in College Admissions Scandal (Exclusive) or Lone Waffle House employee gets a helping hand from customers? Answer Choices: **(A) Teresa Giudice Gives Advice to Lori Loughlin as She Faces Prison in College Admissions Scandal (Exclusive)** (B) Lone Waffle House employee gets a helping hand from customers

Output: The answer index is A.



Input: Here is the reading history of a user: Chinese pilot suspended after woman poses in cockpit with drinks, The 8 things you should never do in a fast-food restaurant, according to former employees, Pentagon leader appeals to Trump to allow military justice cases to proceed unfettered, Kristen Stewart Just Made Leather Bras a Thing, and We're All For It, Impeachment Inquiry Tests Ties Between Barr and Trump. Based on this history, would this user prefer Judge agrees Alabama Islamic State recruit is not US citizen or 30 Best Black Friday Deals from Costco? Answer Choices: (A) **Judge agrees Alabama Islamic State recruit is not US citizen** (B) 30 Best Black Friday Deals from Costco

Output: The answer index is **B**.

- You are a news recommender system now.

Input: Here is the reading history of a user: 'At 237 Lbs., I Was Embarrassed To Go To The Gym. So I Did An At-Home BeachBody Program And Lost 117 Lbs.', Should You Try the Controversial Cabbage Soup Diet? See What Experts Have to Say, How Much You Can Change Your Abs in 2 Weeks, It's Easy to Overdose on Acetaminophen and It Can Kill You, New Study Says, The keto diet is hard work but this hack makes it so much easier. Based on this history, would this user prefer Teresa Giudice Gives Advice to Lori Loughlin as She Faces Prison in College Admissions Scandal (Exclusive) or Lone Waffle House employee gets a helping hand from customers? Answer Choices: (A) **Teresa Giudice Gives Advice to Lori Loughlin as She Faces Prison in College Admissions Scandal (Exclusive)** (B) Lone Waffle House employee gets a helping hand from customers

Output: The answer index is **A**.

Input: Here is the reading history of a user: Chinese pilot suspended after woman poses in cockpit with drinks, The 8 things you should never do in a fast-food restaurant, according to former employees, Pentagon leader appeals to Trump to allow military justice cases to proceed unfettered, Kristen Stewart Just Made Leather Bras a Thing, and We're All For It, Impeachment Inquiry Tests Ties Between Barr and Trump. Based on this history, would this user prefer Holiday's 36 points push Pelicans past Clippers 132-127 or Judge agrees Alabama Islamic State recruit is not US citizen? Answer Choices: (A) Holiday's 36 points push Pelicans past Clippers 132-127 (B) **Judge agrees Alabama Islamic State recruit is not US citizen**

Output: The answer index is **A**.

## A.9 gpt-3.5-turbo with listwise

### A.9.1 Movie.

- You are a movie recommender system now.

Input: Here is the watching history of a user: Gattaca, Armageddon, Big, Babes in Toyland, Gladiator. Based on this history, please rank the following candidate movies: (A) Con Air (B) Mulan (C) Nikita (D) **Donnie Brasco** (E) Star Wars: Episode I - The Phantom Menace

Output: The answer index is **D A C B E**.

Input: Here is the watching history of a user: Enemy of the State, The Mask of Zorro, Patriot Games, Men in Black, The Patriot. Based on this history, please rank the following candidate movies: (A) The Princess Bride (B) Star Wars: Episode V - The Empire Strikes Back (C) **U-571** (D) Mission: Impossible 2 (E) It's a Wonderful Life

Output: The answer index is **B C D A E**.

- You are a movie recommender system now.

Input: Here is the watching history of a user: Gattaca, Armageddon, Big, Babes in Toyland, Gladiator. Based on this history, please rank the following candidate movies: (A) Con Air (B) Mulan (C) Nikita **(D) Donnie Brasco** (E) Star Wars: Episode I - The Phantom Menace

Output: The answer index is D A C B E.

Input: Here is the watching history of a user: When Harry Met Sally..., Good Will Hunting, Back to the Future, Unforgiven, The Shining. Based on this history, please rank the following candidate movies: (A) Rocky II (B) Waterworld **(C) Bull Durham** (D) The Fifth Element (E) Escape from the Planet of the Apes

Output: The answer index is C D A E B.

- You are a movie recommender system now.

Input: Here is the watching history of a user: Gattaca, Armageddon, Big, Babes in Toyland, Gladiator. Based on this history, please rank the following candidate movies: (A) Con Air (B) Mulan (C) Nikita **(D) Donnie Brasco** (E) Star Wars: Episode I - The Phantom Menace

Output: The answer index is D A C B E.

Input: Here is the watching history of a user: American Werewolf in London, An, Ghostbusters, The Hunger, The Howling, The Dead Zone. Based on this history, please rank the following candidate movies: (A) Jaws 3-D (B) Demolition Man (C) The Quick and the Dead **(D) Poltergeist** (E) Near Dark

Output: The answer index is E D C B A.

- You are a movie recommender system now.

Input: Here is the watching history of a user: Gattaca, Armageddon, Big, Babes in Toyland, Gladiator. Based on this history, please rank the following candidate movies: (A) Con Air (B) Mulan (C) Nikita **(D) Donnie Brasco** (E) Star Wars: Episode I - The Phantom Menace

Output: The answer index is D A C B E.

Input: Here is the watching history of a user: Dead Again, What About Bob?, The Cider House Rules, The Big Lebowski, Interiors. Based on this history, please rank the following candidate movies: **(A) Sweet and Lowdown** (B) The Englishman Who Went Up a Hill, But Came Down a Mountain (C) The Green Mile (D) Germinal (E) Bullets Over Broadway

Output: The answer index is A E B C D.

- You are a movie recommender system now.

Input: Here is the watching history of a user: Gattaca, Armageddon, Big, Babes in Toyland, Gladiator. Based on this history, please rank the following candidate movies: (A) Con Air (B) Mulan (C) Nikita **(D) Donnie Brasco** (E) Star Wars: Episode I - The Phantom Menace

Output: The answer index is D A C B E.

Input: Here is the watching history of a user: Mrs. Doubtfire, Mr. Saturday Night, The Twelve Chairs, Nothing in Common, Aladdin and the King of Thieves. Based on this history, please rank the following candidate movies: (A) Predator (B) With Honors (C) Police Academy 5: Assignment: Miami Beach (D) Funny Farm **(E) The Third Man**

Output: The answer index is D B E A C.

- You are a movie recommender system now.

Input: Here is the watching history of a user: Gattaca, Armageddon, Big, Babes in Toyland, Gladiator. Based on this history, please rank the following candidate movies: (A) Con Air (B) Mulan (C) Nikita **(D) Donnie Brasco**

(E) Star Wars: Episode I - The Phantom Menace

Output: The answer index is D A C B E.

Input: Here is the watching history of a user: Goldfinger, The Blues Brothers, Robocop, Rush Hour, Shaft. Based on this history, please rank the following candidate movies: (A) Star Wars: Episode I - The Phantom Menace (B) **Highlander** (C) Dudley Do-Right (D) The Mod Squad (E) The Fugitive

Output: The answer index is B E A D C.

#### A.9.2 Book.

- You are a book recommender system now.

Input: Here is the reading history of a user: Dress Your Family in Corduroy and Denim, My Age of Anxiety: Fear, Hope, Dread, and the Search for Peace of Mind, Knuffle Bunny: A Cautionary Tale, Don't Let The Pigeon Drive The Bus!, Purplicious (Pinkalicious). Based on this history, please rank the following candidate books: (A) Moms Who Drink and Swear: True Tales of Loving My Kids While Losing My Mind (B) Suicide of a Superpower: Will America Survive to 2025? (C) The Particular Sadness of Lemon Cake: A Novel (D) **Something Other Than God: How I Passionately Sought Happiness and Accidentally Found It** (E) I Know This Much Is True

Output: The answer index is D B A C E.

Input: Here is the reading history of a user: The Hangman's Daughter, The Perfume Collector: A Novel, Tobacco Road, The Blackhouse: A Novel, Bad Monkey. Based on this history, please rank the following candidate books: (A) **The Boys in the Boat: Nine Americans and Their Epic Quest for Gold at the 1936 Berlin Olympics** (B) Moving Day: A Thriller (C) Gone Girl (D) I Hope They Serve Beer In Hell (E) The Neighbors

Output: The answer index is A C B E D.

- You are a book recommender system now.

Input: Here is the reading history of a user: Dress Your Family in Corduroy and Denim, My Age of Anxiety: Fear, Hope, Dread, and the Search for Peace of Mind, Knuffle Bunny: A Cautionary Tale, Don't Let The Pigeon Drive The Bus!, Purplicious (Pinkalicious). Based on this history, please rank the following candidate books: (A) Moms Who Drink and Swear: True Tales of Loving My Kids While Losing My Mind (B) Suicide of a Superpower: Will America Survive to 2025? (C) The Particular Sadness of Lemon Cake: A Novel (D) **Something Other Than God: How I Passionately Sought Happiness and Accidentally Found It** (E) I Know This Much Is True

Output: The answer index is D B A C E.

Input: Here is the reading history of a user: Middlesex: A Novel, Freakonomics: A Rogue Economist Explores the Hidden Side of Everything, Nefertiti: A Novel, The Count of Monte Cristo (Penguin Classics), The Mists of Avalon. Based on this history, please rank the following candidate books: (A) **The Neverending Story** (B) The Death Cure (Maze Runner, Book 3) (C) Lord of the Flies (Penguin Great Books of the 20th Century) (D) The Handmaid's Tale (Contemporary Classics) (E) Room: A Novel

Output: The answer index is D E A C B.

- You are a book recommender system now.

Input: Here is the reading history of a user: Dress Your Family in Corduroy and Denim, My Age of Anxiety: Fear, Hope, Dread, and the Search for Peace of Mind, Knuffle Bunny: A Cautionary Tale, Don't Let The Pigeon Drive The Bus!, Purplicious (Pinkalicious). Based on this history, please rank the following candidate books: (A) Moms Who Drink and Swear: True Tales of Loving My Kids While Losing My Mind (B) Suicide of a Superpower: Will America Survive to 2025? (C) The Particular Sadness of Lemon Cake: A Novel (D) **Something Other Than**

**God: How I Passionately Sought Happiness and Accidentally Found It** (E) I Know This Much Is True

Output: The answer index is D B A C E.

Input: Here is the reading history of a user: Tangled (The Tangled Series), Thief (Love Me With Lies) (Volume 3), Unteachable, Lovely Trigger (Tristan & Danika) (Volume 3), Monster in His Eyes. Based on this history, please rank the following candidate books: (A) Beautiful Ink (Forever Inked Novel) (Volume 1) (B) More Than This (C) Because of Low (Sea Breeze) (D) The Other Boleyn Girl **(E) Bob Books, Set 1: Beginning Readers**

Output: The answer index is B D C A E.

- You are a book recommender system now.

Input: Here is the reading history of a user: Dress Your Family in Corduroy and Denim, My Age of Anxiety: Fear, Hope, Dread, and the Search for Peace of Mind, Knuffle Bunny: A Cautionary Tale, Don't Let The Pigeon Drive The Bus!, Purplicious (Pinkalicious). Based on this history, please rank the following candidate books: (A) Moms Who Drink and Swear: True Tales of Loving My Kids While Losing My Mind (B) Suicide of a Superpower: Will America Survive to 2025? (C) The Particular Sadness of Lemon Cake: A Novel **(D) Something Other Than God: How I Passionately Sought Happiness and Accidentally Found It** (E) I Know This Much Is True

Output: The answer index is D B A C E.

Input: Here is the reading history of a user: Destiny of the Republic: A Tale of Madness, Medicine and the Murder of a President, Heaven Is Here: An Incredible Story of Hope, Triumph, and Everyday Joy, 1493: Uncovering the New World Columbus Created, Wilderness: A Novel, Little Girl Blue: The Life of Karen Carpenter. Based on this history, please rank the following candidate books: (A) Major Pettigrew's Last Stand: A Novel **(B) Slaughterhouse-Five (or The Children's Crusade: A Duty Dance with Death)** (C) The Mapping of Love and Death (Maisie Dobbs, Book 7) (D) A Blaze of Glory: A Novel of the Battle of Shiloh (A Novel of the Civil War) (E) Blood Makes Noise

Output: The answer index is A B C D E.

- You are a book recommender system now.

Input: Here is the reading history of a user: Dress Your Family in Corduroy and Denim, My Age of Anxiety: Fear, Hope, Dread, and the Search for Peace of Mind, Knuffle Bunny: A Cautionary Tale, Don't Let The Pigeon Drive The Bus!, Purplicious (Pinkalicious). Based on this history, please rank the following candidate books: (A) Moms Who Drink and Swear: True Tales of Loving My Kids While Losing My Mind (B) Suicide of a Superpower: Will America Survive to 2025? (C) The Particular Sadness of Lemon Cake: A Novel **(D) Something Other Than God: How I Passionately Sought Happiness and Accidentally Found It** (E) I Know This Much Is True

Output: The answer index is D B A C E.

Input: Here is the reading history of a user: The Boy Who Sneaks In My Bedroom Window, The Future of Us, Inescapable: The Premonition Series, The Elite (The Selection), Hate List. Based on this history, please rank the following candidate books: (A) The Astronaut Wives Club: A True Story (B) Hopeless **(C) Yellow Star** (D) Flat-Out Love (E) Bound: THE CRYSTOR Series

Output: The answer index is B D A E C.

- You are a book recommender system now.

Input: Here is the reading history of a user: Dress Your Family in Corduroy and Denim, My Age of Anxiety: Fear, Hope, Dread, and the Search for Peace of Mind, Knuffle Bunny: A Cautionary Tale, Don't Let The Pigeon Drive The Bus!, Purplicious (Pinkalicious). Based on this history, please rank the following candidate books: (A) Moms Who Drink and Swear: True Tales of Loving My Kids While Losing My Mind (B) Suicide of a Superpower: Will

America Survive to 2025? (C) The Particular Sadness of Lemon Cake: A Novel (D) **Something Other Than God: How I Passionately Sought Happiness and Accidentally Found It** (E) I Know This Much Is True  
Output: The answer index is D B A C E.

Input: Here is the reading history of a user: Bully: A Fall Away Novel, One for the Money (Stephanie Plum, No. 1) (Stephanie Plum Novels), Fading, Neanderthal Seeks Human: A Smart Romance (Knitting in the City) (Volume 1), The Spellman Files. Based on this history, please rank the following candidate books: (A) Beautiful Disaster (B) Trouble (C) Bender (The Core Four Series) (D) **Running Barefoot** (E) Ruin  
Output: The answer index is A B E D C.

#### A.9.3 Music.

- You are a music recommender system now.

Input: Here is the listening history of a user: Broken Bells, She & Him - Volume Two, April Uprising, Congratulations, You I Wind Land & Sea. Based on this history, please rank the following candidate music: (A) Thor (B) All Gas. No Brake. (C) **This Is Happening** (D) Momentum (E) Fallow  
Output: The answer index is C B E A D.

Input: Here is the listening history of a user: Exposure, The Best of Friends, H to He, Who Am the Only One, Mirage, 20 Jazz Funk Greats. Based on this history, please rank the following candidate music: (A) Reg Strikes Back (B) 20th Century Masters: The Millennium Collection - The Best Of Burt Bacharach (C) And Then There Were Three (D) Yes Expanded & Remastered (E) **One Voice**  
Output: The answer index is B C D A E.

- You are a music recommender system now.

Input: Here is the listening history of a user: Broken Bells, She & Him - Volume Two, April Uprising, Congratulations, You I Wind Land & Sea. Based on this history, please rank the following candidate music: (A) Thor (B) All Gas. No Brake. (C) **This Is Happening** (D) Momentum (E) Fallow  
Output: The answer index is C B E A D.

Input: Here is the listening history of a user: Z, Make Believe Jewel, The Greatest Hits: Why Try Harder, Out of State Plates, The System Has Failed. Based on this history, please rank the following candidate music: (A) Is This It (B) Parachutes (C) Killswitch Engage - As Daylight Dies (D) Home (E) **Winning the Night Away**  
Output: The answer index is E A B D C.

- You are a music recommender system now.

Input: Here is the listening history of a user: Broken Bells, She & Him - Volume Two, April Uprising, Congratulations, You I Wind Land & Sea. Based on this history, please rank the following candidate music: (A) Thor (B) All Gas. No Brake. (C) **This Is Happening** (D) Momentum (E) Fallow  
Output: The answer index is C B E A D.

Input: Here is the listening history of a user: Blunderbuss, Little Broken Hearts, havoc and bright lights, North, Closer To The Truth. Based on this history, please rank the following candidate music: (A) **The Diving Board** (B) This Is Me...Then (C) Loved Me Back to Life (D) One of the Boys (E) Half The Perfect World  
Output: The answer index is A E C B D.

- You are a music recommender system now.

Input: Here is the listening history of a user: Broken Bells, She & Him - Volume Two, April Uprising, Congratulations, You I Wind Land & Sea. Based on this history, please rank the following candidate music: (A) Thor (B)

All Gas. No Brake. (C) **This Is Happening** (D) Momentum (E) Fallow

Output: The answer index is C B E A D.

Input: Here is the listening history of a user: New Miserable Experience, We Were Dead Before The Ship Even Sank, Stadium Arcadium, Dirt Farmer, April. Based on this history, please rank the following candidate music: (A) Wincing the Night Away (B) I Am Me (C) **Off the Ground** (D) The Lost Notebooks of Hank Williams (E) Wrecking Ball

Output: The answer index is A E D B C.

- You are a music recommender system now.

Input: Here is the listening history of a user: Broken Bells, She & Him - Volume Two, April Uprising, Congratulations, You I Wind Land & Sea. Based on this history, please rank the following candidate music: (A) Thor (B) All Gas. No Brake. (C) **This Is Happening** (D) Momentum (E) Fallow

Output: The answer index is C B E A D.

Input: Here is the listening history of a user: Takk, Tommy James and the Shondells Anthology, James Gang - Greatest Hits, Dragon Fly, Four Cornered Night. Based on this history, please rank the following candidate music: (A) Genius Hits the Road (B) Mean Everything To Nothing (C) Voodoo (D) **Pieces Of You** (E) In The Eye Of The Storm

Output: The answer index is B C A E D.

- You are a music recommender system now.

Input: Here is the listening history of a user: Broken Bells, She & Him - Volume Two, April Uprising, Congratulations, You I Wind Land & Sea. Based on this history, please rank the following candidate music: (A) Thor (B) All Gas. No Brake. (C) **This Is Happening** (D) Momentum (E) Fallow

Output: The answer index is C B E A D.

Input: Here is the listening history of a user: Stadium Arcadium, Dirt Farmer, April, Off the Ground, It's Blitz!. Based on this history, please rank the following candidate music: (A) Clear Hearts Grey Flowers (B) **Historicity** (C) You Can't Win (D) Some Enchanted Evening (E) Wrecking Ball

Output: The answer index is E B C A D.

#### A.9.4 News.

- You are a news recommender system now.

Input: Here is the reading history of a user: 'At 237 Lbs., I Was Embarrassed To Go To The Gym. So I Did An At-Home BeachBody Program And Lost 117 Lbs.', Should You Try the Controversial Cabbage Soup Diet? See What Experts Have to Say, How Much You Can Change Your Abs in 2 Weeks, It's Easy to Overdose on Acetaminophen and It Can Kill You, New Study Says, The keto diet is hard work but this hack makes it so much easier. Based on this history, please rank the following candidate news: (A) Lone Waffle House employee gets a helping hand from customers (B) Significant others (C) Russia Releases Norwegian, Lithuanians in Unusual Spy Swap (D) **Teresa Giudice Gives Advice to Lori Loughlin as She Faces Prison in College Admissions Scandal (Exclusive)** (E) Women's rugby teams join forces to move ambulance

Output: The answer index is D C B A E.

Input: Here is the reading history of a user: 'I am scared all the time': Chimps and people are clashing in rural Uganda, One of FBI's Most Wanted fugitives offers surrender, Iowan convicted of murder claims his life-sentence was served once he died, was revived in medical emergency. The court disagrees., Dog Throws A Total Tantrum



When She Realizes Mom Wants To Take The Stairs, Florida man demands deputies take down his mug shot. They replaced it with his booking photo.. Based on this history, please rank the following candidate news: (A) Get the most out of your credit card with these 25 unexpected perks (B) Schiff accuses Trump of 'witness intimidation' (C) **Why I'm Done Celebrating The Accomplishments Of Couples** (D) Meghan Markle's Lawyers Debunk Multiple False Tabloid Stories in New Court Documents (E) 40 Healthy Weeknight Dinners That Will Get You Through the Holidays

Output: The answer index is D B A E C.

- You are a news recommender system now.

Input: Here is the reading history of a user: 'At 237 Lbs., I Was Embarrassed To Go To The Gym. So I Did An At-Home BeachBody Program And Lost 117 Lbs.', Should You Try the Controversial Cabbage Soup Diet? See What Experts Have to Say, How Much You Can Change Your Abs in 2 Weeks, It's Easy to Overdose on Acetaminophen and It Can Kill You, New Study Says, The keto diet is hard work but this hack makes it so much easier. Based on this history, please rank the following candidate news: (A) Lone Waffle House employee gets a helping hand from customers (B) Significant others (C) Russia Releases Norwegian, Lithuanians in Unusual Spy Swap (D) **Teresa Giudice Gives Advice to Lori Loughlin as She Faces Prison in College Admissions Scandal (Exclusive)** (E) Women's rugby teams join forces to move ambulance

Output: The answer index is D C B A E.

Input: Here is the reading history of a user: Mike 'The Situation' Sorrentino Fires Back After Steroid Accusations, Meghan McCain GOES IN on Donald Trump Jr. on 'The View', Bogus Warren Quote Ignites Immigration Anger, Chevrolet Performance Reveals New Small Block Crate Engine, The economic picture is darkening in states critical to Trump's reelection bid. Based on this history, please rank the following candidate news: (A) 11 Regional Thanksgiving Recipes That Food Bloggers Swear By (B) Former North Carolina State, NBA player Anthony Grundy dies in stabbing, police say (C) **Maze of tunnels reveals remains of ancient Jerusalem** (D) 4 takeaways from Marie Yovanovitch's testimony (E) Cows swept away by Hurricane Dorian found alive but how?

Output: The answer index is D B C E A.

- You are a news recommender system now.

Input: Here is the reading history of a user: 'At 237 Lbs., I Was Embarrassed To Go To The Gym. So I Did An At-Home BeachBody Program And Lost 117 Lbs.', Should You Try the Controversial Cabbage Soup Diet? See What Experts Have to Say, How Much You Can Change Your Abs in 2 Weeks, It's Easy to Overdose on Acetaminophen and It Can Kill You, New Study Says, The keto diet is hard work but this hack makes it so much easier. Based on this history, please rank the following candidate news: (A) Lone Waffle House employee gets a helping hand from customers (B) Significant others (C) Russia Releases Norwegian, Lithuanians in Unusual Spy Swap (D) **Teresa Giudice Gives Advice to Lori Loughlin as She Faces Prison in College Admissions Scandal (Exclusive)** (E) Women's rugby teams join forces to move ambulance

Output: The answer index is D C B A E.

Input: Here is the reading history of a user: Oprah Winfrey Just Bought Jeff Bridges' Ranch in Montecito, Girlfriend testifies at trial of man in death of his fiancée, One of FBI's Most Wanted fugitives offers surrender, Dog Throws A Total Tantrum When She Realizes Mom Wants To Take The Stairs, A body-language expert says Meghan Markle is "politely disconnecting" from the public, and honestly, we would too. Based on this history, please rank the following candidate news: (A) GoFundMe Honors Good Samaritans at First Heroes



Celebration: 'Amazing Things Are Happening' (B) **Santa Clarita shooting: Unregistered guns found in home of Saugus suspect; motive a mystery** (C) Watch These Two Love Birds Perform a Heart-Shaped Swan Dance (D) U.S. 'flexible' on military exercises with South Korea as North demands cancellation (E) Maze of tunnels reveals remains of ancient Jerusalem

Output: The answer index is B E D A C.

- You are a news recommender system now.

Input: Here is the reading history of a user: 'At 237 Lbs., I Was Embarrassed To Go To The Gym. So I Did An At-Home BeachBody Program And Lost 117 Lbs.', Should You Try the Controversial Cabbage Soup Diet? See What Experts Have to Say, How Much You Can Change Your Abs in 2 Weeks, It's Easy to Overdose on Acetaminophen and It Can Kill You, New Study Says, The keto diet is hard work but this hack makes it so much easier. Based on this history, please rank the following candidate news: (A) Lone Waffle House employee gets a helping hand from customers (B) Significant others (C) Russia Releases Norwegian, Lithuanians in Unusual Spy Swap (D) **Teresa Giudice Gives Advice to Lori Loughlin as She Faces Prison in College Admissions Scandal (Exclusive)** (E) Women's rugby teams join forces to move ambulance

Output: The answer index is D C B A E.

Input: Here is the reading history of a user: Kevin Spacey Won't Be Charged in Sexual Assault Case After Accuser Dies, Ian Ziering's Wife Erin Ludwig Files for Divorce Days After Split Announcement, A wave crashed over a couple during their beach wedding photo shoot, and now the stunning picture is going viral, Jessica Simpson's latest Birdie Mae post suggests she's done having kids, plus more news, Kate & Meghan Head to Separate Events in Gorgeous Blue Outfits. Based on this history, please rank the following candidate news: (A) **Opinion: Colin Kaepernick is about to get what he deserves: a chance** (B) Celebrity PDA of 2019 (C) 3 Indiana judges suspended after a night of drinking turned into a White Castle brawl (D) How much turkey do you need to buy per person? (E) Camila Cabello Explains the Sweet Meaning Behind Her First Tattoo

Output: The answer index is A C B D E.

- You are a news recommender system now.

Input: Here is the reading history of a user: 'At 237 Lbs., I Was Embarrassed To Go To The Gym. So I Did An At-Home BeachBody Program And Lost 117 Lbs.', Should You Try the Controversial Cabbage Soup Diet? See What Experts Have to Say, How Much You Can Change Your Abs in 2 Weeks, It's Easy to Overdose on Acetaminophen and It Can Kill You, New Study Says, The keto diet is hard work but this hack makes it so much easier. Based on this history, please rank the following candidate news: (A) Lone Waffle House employee gets a helping hand from customers (B) Significant others (C) Russia Releases Norwegian, Lithuanians in Unusual Spy Swap (D) **Teresa Giudice Gives Advice to Lori Loughlin as She Faces Prison in College Admissions Scandal (Exclusive)** (E) Women's rugby teams join forces to move ambulance

Output: The answer index is D C B A E.

Input: Here is the reading history of a user: Mayfield's postgame outfit gets all the memes, Jamie Lee Curtis Opens Up About Being 20 Years Sober, Going Public With Her Addiction, Firefighters Find a Diamond Ring in the Getty Fire Rubble, Nigerian police free 259 people from Islamic institution, Russian smuggling linked to 39 bodies found in truck in Britain. Based on this history, please rank the following candidate news: (A) The Real Reason McDonald's Keeps the Filet-O-Fish on Their Menu (B) There are 14 cheap days to fly left in 2019: When are they and what deals can you score? (C) Reaction to Myles Garrett ripping off Mason Rudolph's helmet and hitting him in the head with it on today's Lunch Break with Jay Crawford (D) **What Menopause Does to**

**Women's Brains** (E) Impeachment inquiry: White House releases rough transcript of Trump's earlier call with Zelensky

Output: The answer index is E C D A B.

- You are a news recommender system now.

Input: Here is the reading history of a user: 'At 237 Lbs., I Was Embarrassed To Go To The Gym. So I Did An At-Home BeachBody Program And Lost 117 Lbs.', Should You Try the Controversial Cabbage Soup Diet? See What Experts Have to Say, How Much You Can Change Your Abs in 2 Weeks, It's Easy to Overdose on Acetaminophen and It Can Kill You, New Study Says, The keto diet is hard work but this hack makes it so much easier. Based on this history, please rank the following candidate news: (A) Lone Waffle House employee gets a helping hand from customers (B) Significant others (C) Russia Releases Norwegian, Lithuanians in Unusual Spy Swap (D) **Teresa Giudice Gives Advice to Lori Loughlin as She Faces Prison in College Admissions Scandal (Exclusive)** (E) Women's rugby teams join forces to move ambulance

Output: The answer index is D C B A E.

Input: Here is the reading history of a user: Florida deputy arrested for child abuse after slamming teen to the ground by her throat, The Camp Fire's 85th victim: Nearly a year later, authorities still have no explanation, Boeing CEO Muilenburg won't get most of his 2019 pay, The Two-for-One Ingredient Your Sausage Stuffing Is Missing, 9 tourist destinations that became obsolete in the 2010s. Based on this history, please rank the following candidate news: (A) Schiff accuses Trump of 'witness intimidation' (B) Amari gets heroic birthday surprise (C) At NATO summit, Trump to stress US allies' defense spending (D) Cows swept away by Hurricane Dorian found alive but how? (E) **Video shows a Boeing 737 plane carrying 196 people burst into flames just after landing at an Egyptian airport**

Output: The answer index is E A C D B.

## B QUALITATIVE CASE STUDIES

- You are a movie recommender system now.

Input: Here is the watching history of a user: Gattaca, Armageddon, Big, Babes in Toyland, Gladiator. Based on this history, would this user prefer Donnie Brasco or Con Air? Answer Choices: (A) Donnie Brasco (B) Con Air  
Output: The answer index is A.

Input: Here is the watching history of a user: The Virgin Suicides, Goya in Bordeaux, Snow Falling on Cedars, Gladiator, Hamlet. Based on this history, would this user prefer The Contender or The Last September? Answer Choices: (A) The Contender (B) The Last September  
Output: The answer index is B.

Input: Here is the watching history of a user: Aliens, E.T. the Extra-Terrestrial, Contact, The Matrix, X-Men. Based on this history, would this user prefer The Fox and the Hound or Steamboat Willie? Answer Choices: (A) The Fox and the Hound (B) Steamboat Willie  
Output: The answer index is N/A as neither option is relevant to the user's watching history.

- You are a book recommender system now.

Input: Here is the reading history of a user: Dress Your Family in Corduroy and Denim, My Age of Anxiety: Fear, Hope, Dread, and the Search for Peace of Mind, Knuffle Bunny: A Cautionary Tale, Don't Let The Pigeon Drive The Bus!, Purplicious (Pinkalicious). Based on this history, would this user prefer Something Other Than God: How I Passionately Sought Happiness and Accidentally Found It or Moms Who Drink and Swear: True Tales of Loving My Kids While Losing My Mind? Answer Choices: (A) Something Other Than God: How I Passionately Sought Happiness and Accidentally Found It (B) Moms Who Drink and Swear: True Tales of Loving My Kids While Losing My Mind  
Output: The answer index is A.

Input: Here is the reading history of a user: The Cellist of Sarajevo, After I'm Gone: A Novel, The Reason I Jump: The Inner Voice of a Thirteen-Year-Old Boy with Autism, The Serpent of Venice: A Novel, We Are All Completely Beside Ourselves: A Novel. Based on this history, would this user prefer The Secret Life of Bees or The Help? Answer Choices: (A) The Secret Life of Bees (B) The Help  
Output: The answer index is N/A. It is difficult to determine the user's preference based on their reading history as neither book

- You are a music recommender system now.

Input: Here is the listening history of a user: Broken Bells, She & Him - Volume Two, April Uprising, Congratulations, You I Wind Land & Sea. Based on this history, would this user prefer This Is Happening or Thor? Answer Choices: (A) This Is Happening (B) Thor  
Output: The answer index is A.

Input: Here is the listening history of a user: Brian McKnight, I'll Be Home For Christmas, Razor & Tie, Holiday, Holiday Music, Soul/R&B, Christmas / Chanukkah / >, Foreign Exchange, Rock Steady, Classique, Christy Nockels, Life Light Up, Sparrow Records, Pop, Religious / Contemp. Christian, Christian, Contemporary Christian Music, Christian - Contemporary, Christian - Modern Worship, Christian Music - Gospel (GS) / >. Based on this history, would this user prefer Chinese Wall or VIP? Answer Choices: (A) Chinese Wall (B) VIP  
Output: The answer index is N/A as neither option is a good fit based on the user's listening history. It would be better to recommend music that aligns with their preferred genres and artists.

- You are a book recommender system now.

Input: Here is the reading history of a user: Dress Your Family in Corduroy and Denim, My Age of Anxiety: Fear, Hope, Dread, and the Search for Peace of Mind, Knuffle Bunny: A Cautionary Tale, Don't Let The Pigeon Drive The Bus!, Purplicious (Pinkalicious). Based on this history, would this user prefer Something Other Than God: How I Passionately Sought Happiness and Accidentally Found It or Moms Who Drink and Swear: True Tales of Loving My Kids While Losing My Mind? Answer Choices: (A) **Something Other Than God: How I Passionately Sought Happiness and Accidentally Found It** (B) Moms Who Drink and Swear: True Tales of Loving My Kids While Losing My Mind

Output: The answer index is A.

Input: Here is the reading history of a user: The Cellist of Sarajevo, After I'm Gone: A Novel, The Reason I Jump: The Inner Voice of a Thirteen-Year-Old Boy with Autism, The Serpent of Venice: A Novel, We Are All Completely Beside Ourselves: A Novel. Based on this history, would this user prefer The Secret Life of Bees or The Help? Answer Choices: (A) The Secret Life of Bees (B) **The Help**

Output: The answer index is N/A. It is difficult to determine the user's preference based on their reading history as neither book is similar to the books they have read.

- You are a movie recommender system now.

Input: Here is the watching history of a user: Blazing Saddles, The Outlaw Josey Wales, The Wild Bunch, The Good Bad and The Ugly, A Fistful of Dollars. Based on this history, please rank the following candidate movies: (A) Clueless (B) Shakespeare in Love (C) **True Grit** (D) Gone with the Wind (E) Hell in the Pacific

Output: The answer index is (C) True Grit. This movie fits well with the user's preference for westerns and action-packed films. The other options, such as Clueless and Shakespeare in Love, are not in the same genre and may not appeal to the user based on their watching history. Gone with the Wind is a classic, but it may not be as action-packed as the user's previous choices. Hell in the Pacific could be a good option, but True Grit is a more well-known and highly rated film in the same genre.

- You are a movie recommender system now.

Input: Here is the watching history of a user: Boys Don't Cry, Babe: Pig in the City, Babe, The Siege, King of the Hill. Based on this history, please rank the following candidate movies: (A) Jurassic Park (B) Apollo 13 (C) Braveheart (D) Evita (E) **The Poseidon Adventure**

Output: The answer index is as follows: (A) Jurassic Park, (B) Apollo 13, (C) Braveheart, (D) Evita, (E) The Poseidon Adventure. Based on the user's watching history, they seem to enjoy a mix of drama and action movies. Therefore, I would recommend (A) Jurassic Park and (B) Apollo 13 as they both have elements of action and drama. (C) Braveheart may also be a good choice as it is a historical drama with action scenes. (D) Evita and (E) The Poseidon Adventure may not be the best fit based on the user's watching history.

- You are a movie recommender system now.

Input: Here is the watching history of a user: The Maltese Falcon, The Big Sleep, Laura, The Thin Man, Dial M for Murder. Based on this history, please rank the following candidate movies: (A) **Suspicion** (B) Timecop (C) Angel Heart (D) On Her Majesty's Secret Service (E) The Texas Chainsaw Massacre

Output: The answer index is as follows: (A) Suspicion - Rank 1, (B) Timecop - Rank 5, (C) Angel Heart - Rank 3, (D) On Her Majesty's Secret Service - Rank 2, (E) The Texas Chainsaw Massacre - Rank 4. Based on the user's watching history, it seems that they enjoy classic mystery and detective movies. Therefore, Suspicion, On Her

Majesty's Secret Service, and Angel Heart are recommended as they fit this genre. Timecop and The Texas Chainsaw Massacre are not recommended as they do not fit the user's watching history.

- You are a movie recommender system now.

Input: Here is the watching history of a user: Sleepy Hollow, The Natural, Smoke, The Breakfast Club, Fearless. Based on this history, please rank the following candidate movies: **(A) Philadelphia** (B) FairyTale: A True Story (C) Four Weddings and a Funeral (D) Excess Baggage (E) Nick of Time

Output: The answer index is as follows: (A) Philadelphia (B) FairyTale: A True Story (C) Four Weddings and a Funeral (E) Nick of Time (D) Excess Baggage. Based on the user's watching history, they seem to enjoy a mix of genres including drama, sports, and coming-of-age films. Therefore, Philadelphia, a drama film about a lawyer fighting for justice for a man with AIDS, would be a good fit. FairyTale: A True Story, a family-friendly fantasy film, may not be the best match. Four Weddings and a Funeral, a romantic comedy, could be a good option as it has elements of drama and humor. Nick of Time, a thriller starring Johnny Depp, could also be a good fit based on the user's history of watching Sleepy Hollow. Excess Baggage, a crime comedy, may not be the best match.