**⊘** Correct

## Congratulations! You passed!

Grade received 100% Latest Submission Grade 100% To pass 80% or higher

Purchasing an item shows a user's preference for that item. It also shows that an item is preferred by a user.

fav/likes/clicks on an item shows a user's interest in that item. It also shows that an item is interesting to a user.

 $\hfill \hfill \hfill$ 

 $\ensuremath{\checkmark}\xspace y$  is 1 if user j fav/likes/clicks on item i (after being shown the item)

 $\hfill \hfill \hfill$ 

Go to next item

<ul> <li>Correct         r(i, j) is a 1 if the movie has a rating and 0 if it does not. In the table above, a question mark indicates there is no rating.</li> <li>1/1 pr</li> <li>You run an online bookstore and collect the ratings of many users. You want to use this to identify what books are "similar" to each other (i.e., if a user likes a certain book, what are other books that they might also like?)</li> <li>You manage an online bookstore and you have the book ratings from many users. You want to learn to predict the expected sales volume (number of books sold) as a function of the average rating of a book.</li> <li>You're an artist and hand-paint portraits for your clients. Each client gets a different portrait (of themselves) and gives you 1-5 star rating feedback, and each client purchases at most 1 portrait. You'd like to predict what rating your next customer will give you.</li> <li>You subscribe to an online video streaming service, and are not satisfied with their movie suggestions. You download all your viewing for the last 10 years and rate each item. You assign each item a genre. Using your ratings and genre assignment, you learn to predict how you will rate new movies based on the genre.</li> <li>Correct         You can find "similar" books by learning feature values using collaborative filtering.</li> </ul>	1.	You have the following table of movie ratings:					1/1 point
Fies, Pies, Pies  1 7 5 4  Linear Algebra Live 4 5 7 1  Refer to the table above for question 1 and 2. Assume numbering starts at 1 for this quiz, so the rating for Football Forever by Elissa is at (1,1)  What is the value of r <sub>10</sub> .  4  ○ Correct  This is the number of users. r <sub>100</sub> is the number of movies/items and is 3 in this table.  2. What is the value of r(2, 2)  ○ Correct  r(1, 3) is a 1 if the movie has a rating and 0 if it does not. In the table above, a question mark indicates there is no rating.  2. In which of the following situations will a collaborative filtering system be the most appropriate learning algorithm (compared to linear or logistic regression)?  ④ You run an online bookstore and collect the ratings of many users. You want to use this to identify what books are "similar" to each other (i.e., if a user likes a certain book, what are other books that they might also like?)  ✓ You amage an online bookstore and you have the book ratings from many users. You want to predict the expected sales volume (number of books solid) as a function of the average rating of a book.  ✓ You're an artist and hand-paint portraits for your clients. Each client gets a different portrait (of themselvea) and gives you 1-5 star rating feedback, and each client purchases at most 1 portrait. You'd like to price the what rating your next customer will give you.  ✓ You subscribe to an online video streaming service, and are not satisfied with their movie suggestions. You download all your viewing for the last 10 years and rate each item. You assign each item a genre. Using your ratings and genre assignment, you learn to predict how you will rate new movies based on the genre.  ○ Correct  You can find "similar" books by learning feature values using collaborative filtering.		Movie	Elissa	Zach	Barry	Terry	
Elinear Algebra Live 4 5 7 1  Refer to the table above for question 1 and 2. Assume numbering starts at 1 for this quiz, so the rating for Football Forever by Elissa is at (1,3)  What is the value of n₀  Correct This is the number of users. n₀, is the number of movies/items and is 3 in this table.  2. What is the value of r(2, 2)  What is the value of r(2, 2)  In which of the following situations will a collaborative filtering system be the most appropriate learning algorithm (compared to linear or logistic regression)?  In which of the following situations will a collaborative filtering system be the most appropriate learning algorithm (compared to linear or logistic regression)?  In which of the following at una nonline bookstore and collect the ratings of many users. You want to use this to identify what books are "similar" to each other (i.e., if a user likes a certain book, what are other books that they might also like?)  You man an artist and hand-paint portraits for your clients. Each client gets a different portrait (of themselves) and gives you 1.5 star rating feedback, and each client purchases at most 1 portrait. You'd like to predict what rating your next customer will give you.  You use an artist and hand-paint portraits for your clients. Each client gets a different portrait (of themselves) and gives you 1.5 star rating feedback, and each client purchases at most 1 portrait. You'd like to predict what rating your next customer will give you.  You usubscribe to an online video streaming service, and are not satisfied with their movie suggestions. You download all your viewing for the last 10 years and rate each item. You assign each item a genre. Using your ratings and genre assignment, you learn to predict how you will rate new movies based on the genre.  Correct You can find "similar" books by learning feature values using collaborative filtering.		Football Forever	5	4	3	?	
Refer to the table above for question 1 and 2. Assume numbering starts at 1 for this quiz, so the rating for Football Forever by Elissa is at (1,1)  What is the value of $n_u$ 2. What is the number of users. $n_m$ is the number of movies/items and is 3 in this table.  2. What is the value of $r(2, 2)$ 3. In which of the following situations will a collaborative filtering system be the most appropriate learning algorithm (compared to linear or logistic regression)?  4. In which of the following situations will a collaborative filtering system be the most appropriate learning algorithm (compared to linear or logistic regression)?  5. In which of the following situations will a collaborative filtering system be the most appropriate learning algorithm (compared to linear or logistic regression)?  6. You run an online bookstore and collect the ratings of many users. You want to use this to identify what books are "similar" to each other (i.e., if a user likes a certain book, what are other books that they might also like?  7. You manage an online bookstore and you have the book ratings from many users. You want to learn to predict the expected sales volume (number of books sold) as a function of the average rating of a book.  7. You're an artist and hand-paint portraits for your clients. Each client gets a different portrait (of themselves) and gives you 1-5 star rating feedback, and each client purchases at most 1 portrait. You'l like to predict what rating your next customer will give you.  7. You subscribe to an online video streaming service, and are not satisfied with their movie suggestions. You download all your viewing for the last 10 years and rate each term. You assign each item a genre. Using your ratings and genre assignment, you learn to predict how you will rate new movies based on the genre.  7. Correct You can find "similar" books by learning feature values using collaborative filtering.		Pies, Pies, Pies	1	?	5	4	
What is the value of n <sub>in</sub> What is the value of r(2, 2)   What is the value of r(2, 2)   What is the value of r(2, 2)   Orerect		Linear Algebra Live	4	5	?	1	
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y is an user $\eta$ purchases item $\eta$ (after being shown the item)	4.	For recommender systems with binary labels y, which of these $y$ is 1 if user $y$ purchases item $y$ (after being shown the item)		fining when $y$ should be	1 for a given user $j$ and iter	n $i$ ? (Check all that apply.)	1/1 point