## Congratulations! You passed!

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

 $\ensuremath{\checkmark}\xspace y$  is 1 if user j purchases item i (after being shown the item)

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

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

**⊘** Correct

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

Go to next item

1.	You have the following table of movie ratings:					1/1 point
	Movie	Elissa	Zach	Barry	Terry	
	Football Forever	5	4	3	?	
	Pies, Pies, Pies	1	?	5	4	
	Linear Algebra Live	4	5	?	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 $n_u$					
	4					
	$\bigcirc$ Correct This 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 $r(2,2)$					1 / 1 point
	0					
	$\odot$ 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.					
	in which of the following situations will a collaborative filtering system be the most appropriate learning algorithm (compared to linear or logistic regression)?					1 / 1 point
	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.					
	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.					
	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.					
	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?)					
	♥ Correct You can find "similar" books by learning feature values using collaborative filtering.					
	For recommender systems with binary labels y, w all that apply.)	hich of these are reasonab	le ways for defining whe	en $y$ should be 1 for a giv	ven user $j$ and item $i$ ? (Check	1 / 1 point