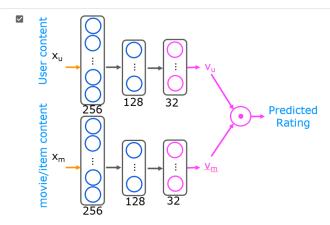


The user and the item networks have different architectures

⊘ Correct

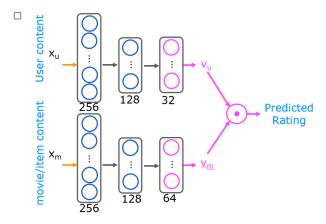
User and item networks can be the same or different sizes.



Both the user and the item networks have the same architecture $% \left(1\right) =\left(1\right) \left(1$

⊘ Correct

User and item networks can be the same or different sizes.



The user vector v_u is 32 dimensional, and the item vector v_m is 64 dimensional

4. You have built a recommendation system to retrieve musical pieces from a large database of music, and have an algorithm that uses separate retrieval and ranking steps. If you modify the algorithm to add more musical pieces to the retrieved list (i.e., the retrieval step returns more items), which of these are likely to happen? Check all that apply.	1/1 point
☐ The quality of recommendations made to users should stay the same or worsen.	
ightharpoonup The quality of recommendations made to users should stay the same or improve.	
 Correct A larger retrieval list gives the ranking system more options to choose from which should maintain or improve recommendations. 	
The system's response time might increase (i.e., users have to wait longer to get recommendations)	
⊙ Correct A larger retrieval list may take longer to process which may increase response time.	
The system's response time might decrease (i.e., users get recommendations more quickly)	
5.	1/1 point
To speed up the response time of your recommendation system, you can pre-compute the vectors $\mathbf{v}_{-}\mathbf{m}$ for all the items you might recommend. This can be done even before a user logs in to your website and even before you know the x_{u} or v_{u} vector. True/False?	
True	
○ False	