



✓ **Congratulations! You passed!**

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1. If you have a classification problem with multiple labels, how does the neural network architecture change?



Instead of a logistic layer, use a softmax layer



Have a logistic layer for each label, and send the outputs of the logistic layer to a softmax layer

Correct



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2. If you have thousands of classes, computing the cross-entropy loss can be very slow. Which of these is a way to help address that problem?



Use a noise-contrastive loss function



Combine the categories hierarchically and train multi-stage neural networks