2.	In LeNet - 5 we can see that as we get into deeper networks the number of channels increases while the height and width of the volume decreases. True/False?	0 / 1 point
	False	
	○ True	
	∠ [®] Expand	

The motivation of Residual Networks is that very deep networks are so good at fitting complex functions that when training them we almost always overfit training data. True/False?	
False	
○ True	
∠ [≯] Expand	
Correct Correct, very deep neural networks are hard to train and a deeper network does not always imply lower training error. Residual Networks allow us to train very deep neural networks.	
8. Models trained for one computer vision task can't be used directly in another task. In most cases, we must change the softmax layer, or the last layers of the model and re-train for the new task. True/False?	
○ False	
∠ [™] Expand	
Correct Yes, this is a good way to take advantage of open-source models trained more or less for the task you want to do. This may also help you save a great number of computational resources and data.	
For a volume of $125 imes 125 imes 64$ which of the following can be used to reduce this to a $125 imes 125 imes 32$ volume?	
\bigcirc Use a 1×1 convolutional layer with a stride of 1, and 32 filters.	
\bigcirc Use a POOL layer of size $2 imes 2$ with a stride of 2.	
\bigcirc Use a $1 imes 1$ convolutional layer with a stride of 2, and 32 filters.	
\bigcirc Use a POOL layer of size $2 imes 2$ but with a stride of 1.	
∠ ⁷ Expand	
\odot correct Yes, since using 1×1 convolutions is a great way to reduce the depth dimension without affecting the other dimensions.	