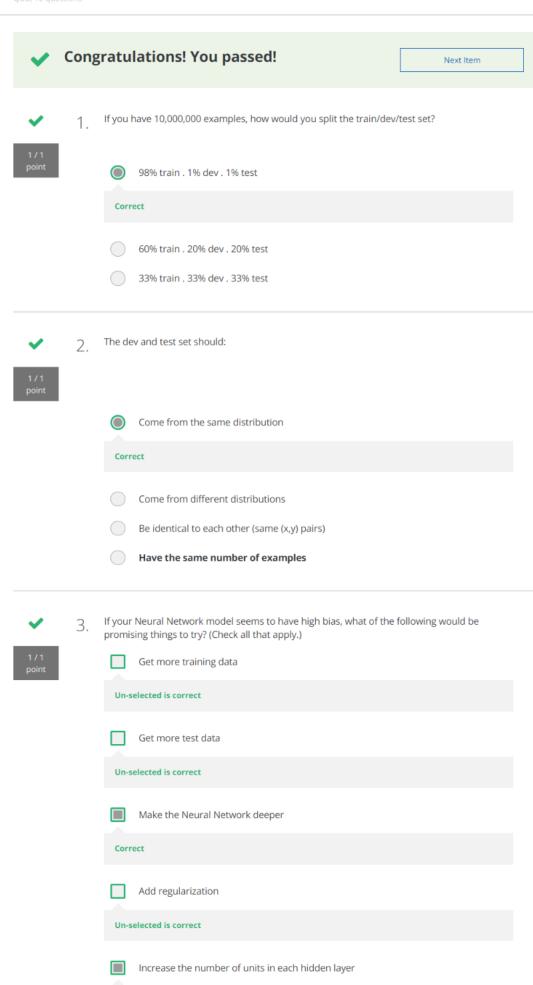
Correct

Ouiz 10



1/1 point	4.	You are working on an automated check-out kiosk for a supermarket, and are building a classifier for apples, bananas and oranges. Suppose your classifier obtains a training set error of 0.5%, and a dev set error of 7%. Which of the following are promising things to try to improve your classifier? (Check all that apply.)  Increase the regularization parameter lambda  Correct  Get more training data  Correct  Use a bigger neural network  Un-selected is correct
1/1 point	5.	<ul> <li>What is weight decay?</li> <li>The process of gradually decreasing the learning rate during training.</li> <li>A regularization technique (such as L2 regularization) that results in gradient descent shrinking the weights on every iteration.</li> <li>Correct</li> <li>A technique to avoid vanishing gradient by imposing a ceiling on the values of the weights.</li> <li>Gradual corruption of the weights in the neural network if it is trained on noisy data.</li> </ul>
1/1 point	6.	Weights are pushed toward becoming smaller (closer to 0)  Correct  Weights are pushed toward becoming bigger (further from 0)  Doubling lambda should roughly result in doubling the weights  Gradient descent taking bigger steps with each iteration (proportional to lambda)
1/1 point	7.	With the inverted dropout technique, at test time:  You apply dropout (randomly eliminating units) but keep the 1/keep_prob factor in the calculations used in training.  You apply dropout (randomly eliminating units) and do not keep the 1/keep_prob

factor in the calculations used in training

		You do not apply dropout (do not randomly eliminate units) and do not keep the 1/keep_prob factor in the calculations used in training
		Correct
		You do not apply dropout (do not randomly eliminate units), but keep the 1/keep_prob factor in the calculations used in training.
<b>~</b>	8.	Increasing the parameter keep_prob from (say) 0.5 to 0.6 will likely cause the following: (Check the two that apply)
1 / 1 point		Increasing the regularization effect
		Un-selected is correct
		Reducing the regularization effect
		Correct
		Causing the neural network to end up with a higher training set error
		Un-selected is correct
		Causing the neural network to end up with a lower training set error
		Correct
~	9.	Which of these techniques are useful for reducing variance (reducing overfitting)? (Check all that apply.)
1 / 1 point		L2 regularization
		Correct
		Data augmentation
		Correct
		Xavier initialization
		Un-selected is correct
		Vanishing gradient
		Un-selected is correct
		Exploding gradient
		Un-selected is correct
		Gradient Checking
		Un-selected is correct

1/1 point	10. Why do we normalize the inputs x?  It makes it easier to visualize the data  It makes the parameter initialization faster  Normalization is another word for regularizationIt helps to reduce variance  It makes the cost function faster to optimize  Correct

Dropout

Correct

