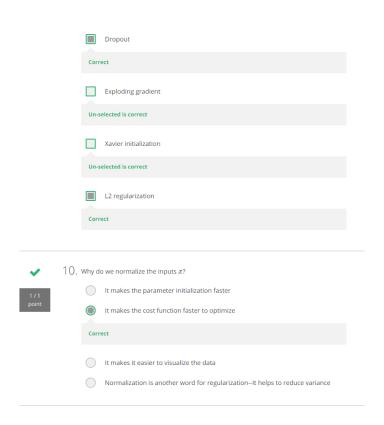


~	5.	What is weight decay?
1/1 point		Gradual corruption of the weights in the neural network if it is trained on noisy data.
		A technique to avoid vanishing gradient by imposing a celling on the values of the weights.
		The process of gradually decreasing the learning rate during training.
		A regularization technique (such as L2 regularization) that results in gradient descent shrinking the weights on every iteration.
		Correct
~	6.	What happens when you increase the regularization hyperparameter lambda?
1/1		Weights are pushed toward becoming smaller (closer to 0)
point		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)
	7.	With the inverted dropout technique, at test time:
	/.	You do not apply dropout (do not randomly eliminate units) and do not keep
1/1 point		the 1/keep_prob factor in the calculations used in training
		Correct
		You apply dropout (randomly eliminating units) but keep the 1/keep_prob
		factor in the calculations used in training. You do not apply dropout (do not randomly eliminate 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
~	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		Vanishing gradient
point		Un-selected is correct
		Gradient Checking
		Un-selected is correct
		Data augmentation
		Correct



6 P P