1 point	1.	Given an intermediate node with 6 safe loans and 3 risky loans, if the min_node_size parameter is 10, what should the tree learning algorithm do next?
		Create a leaf and return it
		Continue building the tree by finding the best splitting feature
1 point	2.	Assume an intermediate node has 6 safe loans and 3 risky loans. For each of 4 possible features to split on, the error reduction is 0.0, 0.05, 0.1, and 0.14, respectively. If the minimum gain in error reduction parameter is set to 0.2, what should the tree learning algorithm do next?
		 Create a leaf and return it Continue building the tree by using the splitting feature that gives 0.14 error reduction
1 point	3.	Consider the prediction path validation_set[0] with my_decision_tree_old and my_decision_tree_new. For my_decision_tree_new trained with
pome		1 max_depth = 6, min_node_size = 100, min_error_reduction=0.0
		is the prediction path shorter, longer, or the same as the prediction path using my_decision_tree_old that ignored the early stopping conditions 2 and 3?
		Shorter
		C Longer The same
	1	Consider the prediction path for ANY new data point. For my_decision_tree_new trained
point	4.	with 1 max_depth = 6, min_node_size = 100, min_error_reduction=0.0
		is the prediction path for a data point always shorter, always longer, always the same,
		shorter or the same, or longer or the same as for my_decision_tree_old that ignored the early stopping conditions 2 and 3?
		Always shorter Always longer
		Always the same
		Shorter or the same Longer or the same
1 point	5.	For a tree trained on any dataset using parameters 1 max_depth = 6, min_node_size = 100, min_error_reduction=0.0
		what is the maximum possible number of splits encountered while making a single
		prediction?
1 point	6.	Is the validation error of the new decision tree (using early stopping conditions 2 and 3) lower than, higher than, or the same as that of the old decision tree from the previous
		assigment? Higher than
		Lower thanThe same
1 point	7.	Which tree has the smallest error on the validation data? model_1
		model_2
		model_3
1 point	8.	Does the tree with the smallest error in the training data also have the smallest error in the validation data?
,		Yes
		O No
1 point	9.	Is it always true that the tree with the lowest classification error on the training set will result in the lowest classification error in the validation set?
		Yes, this is ALWAYS true.
		No, this is NOT ALWAYS true.
1 point	10.	Which tree has the largest complexity? model_1
		model_1 model_2
		model_3
1 naint	11.	Is it always true that the most complex tree will result in the lowest classification error in the validation_set?
point		Yes, this is always true.
		No, this is not always true.
1 point	12.	Using the complexity definition, which model (model_4, model_5, or model_6) has the largest complexity?
		model_4
		model_5 model_6
1 point	13.	model_4 and model_5 have similar classification error on the validation set but model_5 has lower complexity. Should you pick model_5 over model_4?
		Pick model_5 over model_4 Pick model_4 over model_5
1 point	14.	would you choose to use?
		model_7 model_8