

scaled deviance is,

$$D_2^* - D_1^* = 2(\ell_1 - \ell_2).$$

We can use this relationship to find X, then Y.

Comparing the second and the third model,

$$\operatorname{AIC}_3 - \operatorname{AIC}_2 = (D_3^* - D_2^*) + 2(p_3 - p_2)$$

 $233 - 214 = (264 - 261) + 2(X - 8).$

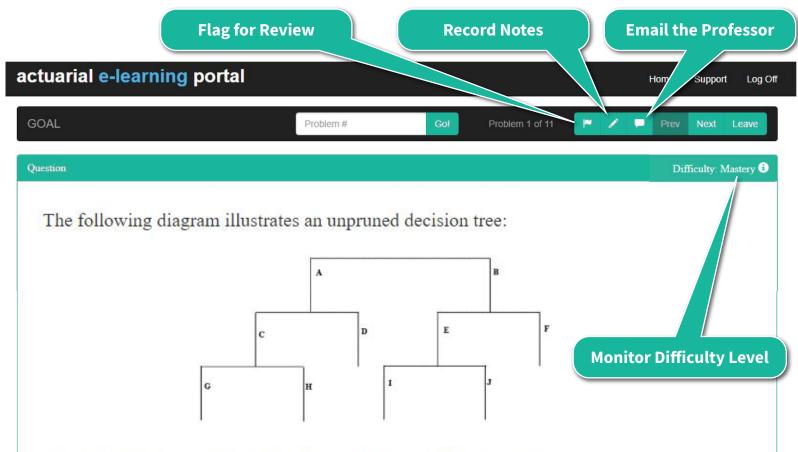
This tells us X is 16.

From the second model alone, we see that Risk Class has 7 parameters.

The fourth model, must have 7 parameter more than the third model.

Therefore, Y is 23.

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The table below gives the residual sum of squares (RSS) at each node:

Pruned decision tree		Unpruned decision tree	
Node	RSS	Node	RSS
A	75	D	32
B	50	F	28
С	55	G and H	19
E	40	I and J	22

You are to use the cost-complexity pruning method to prune the tree, and the value of α of the cost-complexity function is 3. Which of the following is preferred?

- A Prune the tree at node A only.
- B Prune the tree at node B only.
- c Prune the tree at node C only.
- D Prune the tree at node E only.
- E Do not prune the tree.

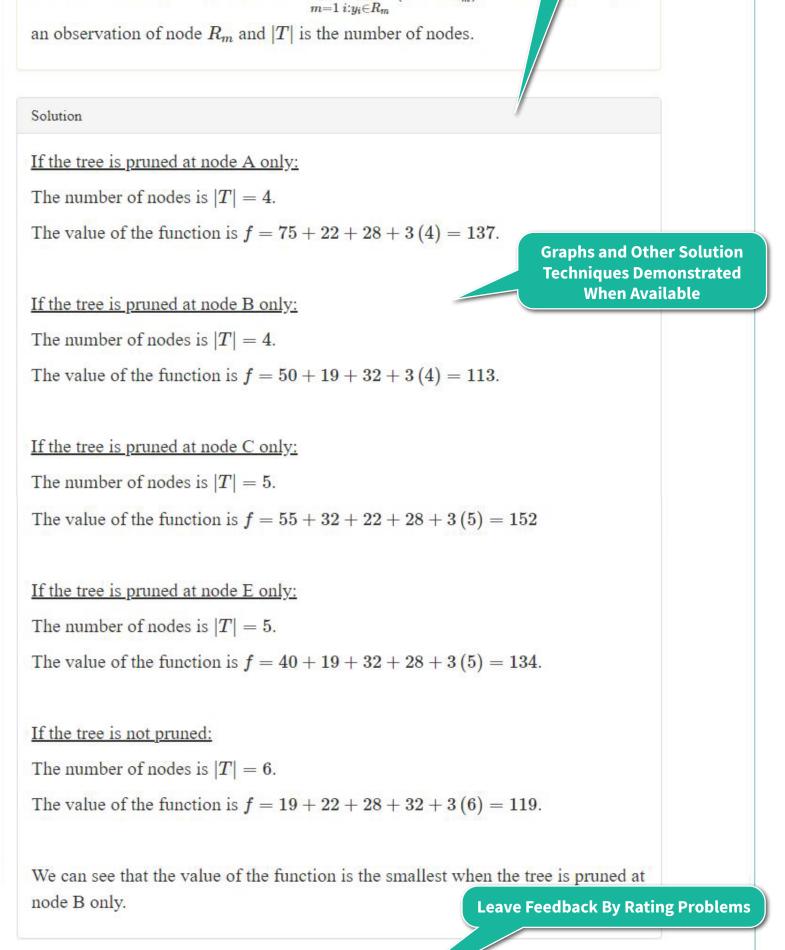
Help Me Start

The cost-complexity function is $f = \sum_{i=1}^{|T|} \sum_{j=1}^{|T|} (y_i - \hat{y}_{R_m})^2 + \alpha |T|$

Helpful Strategies To Get You Started

Comprehensive Solutions with Alternative Solutions When Available

where y_i is



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