(b)	(i)	Design a balanced binary search tree for an ordered list of 11 records. Label the records 1, 2, , 11 in your tree.	[4]
	(ii)	What is the height of the tree that you have constructed?	[1]
	1.000	What is the maximum number of comparisons that would have to be made to match any existing record? This number should include the final comparison that determines the match.	[1]
		culate the least height of a binary search tree that has 1000 records stored is internal nodes.	[2]