1.	We start from A and draw the tree formed by the edges we can reach from A. The nodes are labelled with the distance from A.	A C (3)
2.	The next step is to extend the trees to all the nodes we can reach from B, C, and D, and label them with the distances from A.	B(4) $F(8)$ $D(5)$ $D(7)$ $G(14)$
•	From B: $F(4+4 = 8)$ and $D(4+1 = 5)$	• E(9)
•	From D: $G(7+7 = 14)$ and $E(7+2 = 9)$	C(3) E(8)
•	From C: $D(3+3 = 6)$ and $E(3+5 = 9)$	
3.	In this new column of nodes, D and E appear twice.	B ⁽⁴⁾ F(8)
•	We only need the one with the shortest distance from A, so we delete D(6) and E(9). (You could just cross them out rather than deleting them.)	$A = \begin{bmatrix} D(7) \\ C(3) \\ C(3) \\ C(8) \end{bmatrix} = E(8)$
4.	Next extend the tree from F, D, and E in the same way. G is the finishing point so that branch is not extended.	$\begin{array}{c} & & & & & & & \\ & & & & & & & \\ & & & & & \\ & & & & \\ & & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & & \\ & & & & & \\ & & & & & & \\ & & & & & & \\ & & & & & & \\ & & &$

