I have a binary tree $T$ (not a binary search tree). Each non-nullptr node of $T$ contains a single character. I will provide you with two traversals of the tree; draw the tree and provide the missing traversal.

1. • An in-order traversal of the tree reads “FBCDAHG”
   • A post-order traversal of the tree reads “BFDHGAC”
2. • An in-order traversal of the tree reads “BCGAHFD”
   • A post-order traversal of the tree reads “BGACFDH”
3. • A post-order traversal of the tree reads “MPDTQXA”
   • An in-order traversal of the tree reads “MDPAXQT”
4. • A post-order traversal of the tree reads “DPXAMTQ”
   • An in-order traversal of the tree reads “PDQAXTM”
5. • A pre-order traversal of the tree reads “MXRTUAQBE”
   • An in-order traversal of the tree reads “RTXUMQAEB”
6. • A pre-order traversal of the tree reads “BTAUMREXQ”
   • An in-order traversal of the tree reads “UAMTERXBQ”
7. • A pre-order traversal of the tree reads “QRMXTEBAU”
   • An in-order traversal of the tree reads “MRQETXABU”