

IB Computer Science
Binary Trees

Directions

For each term, write the number of the definition that **best** matches the term.

Note: Many terms and definitions are similar, choose the definition that best describes the term.

Question Number	Term	Matching Definition Number	Defintion Number	Definition
1	Parent		1	The top node in a tree.
2	Preorder		2	A type of depth-first traversal where a node is visited after its children
3	depth-first traversal		3	A node within a tree that has nodes that branch off from it (children)
4	Root		4	Traversing trees in level-order, where every node on a level is visited before going to a lower level.
5	Child		5	A type of depth-first traversal where a node is visited before its children
6	Leaf		6	A data structure in which the number of elements can change during program execution
7	Traversal		7	A node with no children within a tree.
8	inorder		8	Going through each of the nodes of a tree
9	Dynamic Data-Structure		9	A node within a tree that branches off from another (parent)
10	Subtree		10	A type of depth-first traversal where a left subtree is processed, then the parent, and then the left subtree.
11	Postorder		11	The grouping of a parent and a child in a tree.
12	breadth-first traversal		12	Includes the three traversal methods in-order, preorder, and postorder