

Review: BINARY TREES

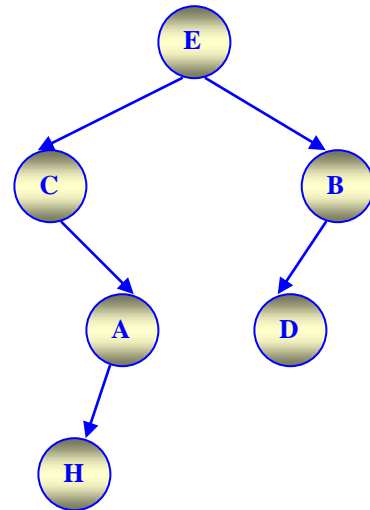
1. Show the result of the following recursive function using the tree given below.

```

Algorithm traverse( root )

    if( root is NULL )
        print( "*" )
    else
        traverse( root->right )
        print ( root->data )
        traverse( root->left )
    end if
    return
end traverse

```



2. Give the breadth first, pre-order, in-order, and post-order traversals for the above tree:

Breadth first traversal:

Pre-order traversal:

In-order traversal:

Post-order traversal:

3. Draw the binary tree whose in-order and post-order traversals are given below:

in-order: **D B A G H E F C**

post-order: **D B H G F E C A**

4. Draw a binary tree for the following expression, then use it to write the postfix form of this expression:

A * B - C * (2 + D) + 5