Reconstruct the Binary Tree

Ex1:

In-order: D, B, H, E, I, A, F, C, J, G.

Pre-order: A, B, D, E, H, I, C, F, G, J.

Ex2:

In-order: D, B, H, E, I, A, F, C, J, G.

Post-order: D, H, I, E, B, F, J, G, C, A

Ex3:

In-order: 18, 4, 17, 13, 9, 15, 100, 20, 6, 19, 11, 14, 7, 22

Pre-order: 20, 17, 4, 18, 15, 9, 13, 100, 19, 6, 7, 11, 14, 22

Ex4:

In-order: 18, 4, 17, 13, 9, 15, 100, 20, 6, 19, 11, 14, 7, 22

Post-order: 18, 4, 13, 9, 100, 15, 17, 6, 14, 11, 22, 7, 19, 20