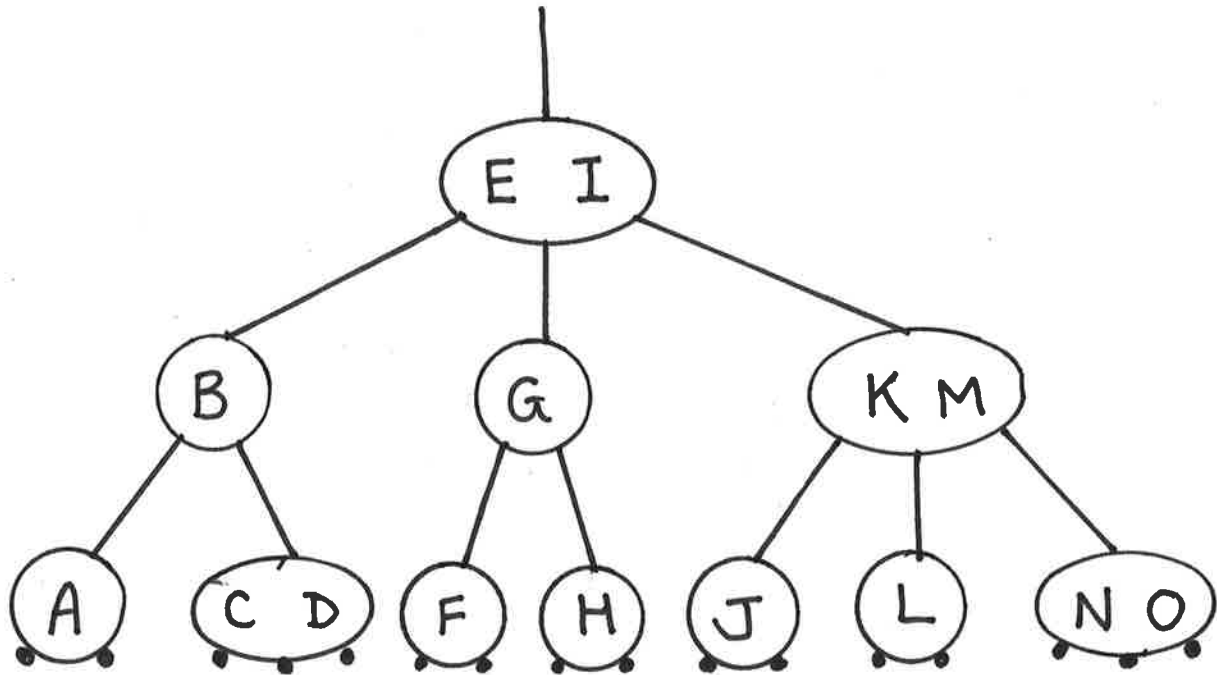


Letters represent the pointers to person objects.



Depth of data item

= How deep it is in the tree

= How many steps it takes to reach it,
which is why we care about measuring it

The root contains 2 data items (E, I) at depth 1,
below that are 4 data items (B, G, K, M) at depth 2,
below that are 9 data items at depth 3.

$$\text{Total depth} = 2 \times 1 + 4 \times 2 + 9 \times 3 = 37$$

$$\text{Total items} = 15$$

$$\therefore \text{average search time or average depth} = \frac{37}{15} = 2.47$$