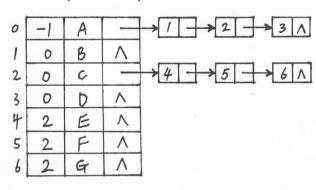
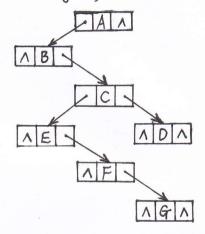


Child-garent representation



Child-Sibling representation



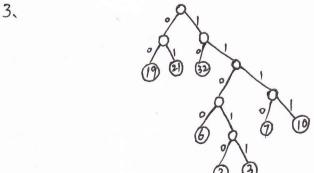
2. Answer: no represents the number of nodes with degree 0, n represents the total number of nodes in the Total number of nodes: $n = n_0 + n_1 + n_2 + \cdots + n_k$.

suppose that the number of branches is B, then B+1=n.

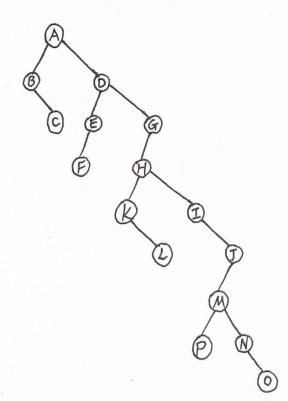
B=1×n,+2×n2+...+k×nk

no + n + n 2 + ··· + n = | × n 1 + 2 × n 2 + ··· + k × n 2 + |

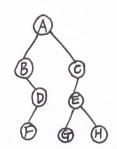
 $n_0 = (2-1)n_2 + (3-1)n_3 + \dots + (k-1)n_k + 1 = 1 + \sum_{i=2}^{k} (i-i)n_i$



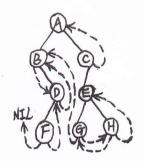
A: 1110, B: 00, C: 11010, D: 1100 E: 10, F: 11011, G: 01, H: 1111



5. (1)



(2)



(3)

