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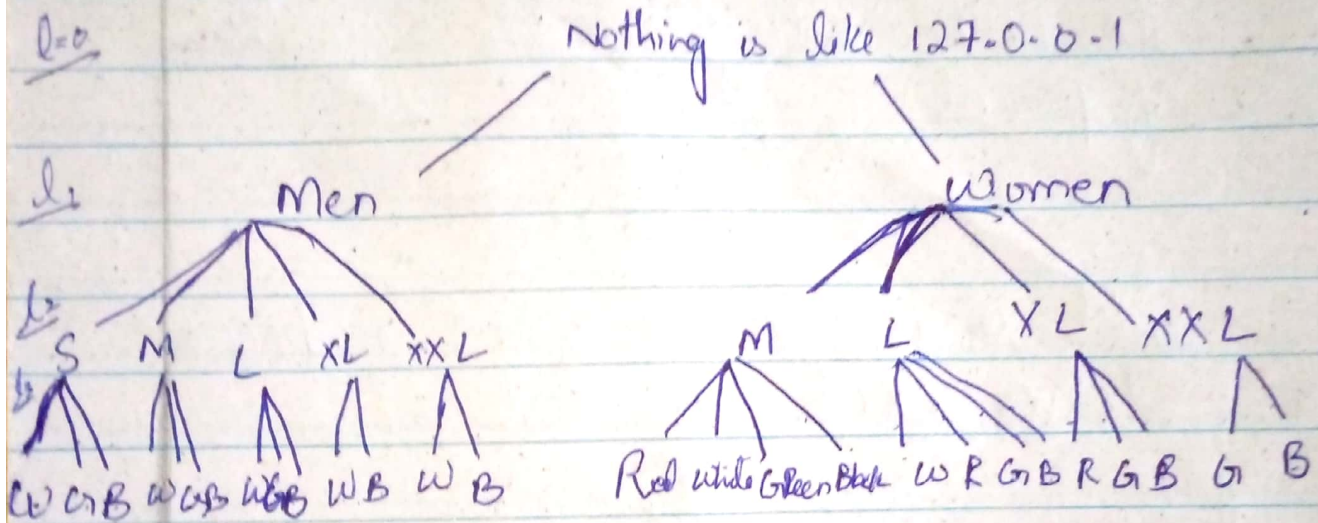
Salman Ahmed Khan

19K-1043

Q # 1

(ii)

white = w, Red = R, Green = G, Black = B



Minimum Shirts total for both = 26

(iii)

Internal Vertices: Nothing is like 127.0.0.1,
Men, S, M, L, XL, XXL; Women, M, L, XL, XXL
Total Internal Vertices: 12

Leaves: w, G, B, w, G, B, w, G, B, w, B, w, B,
R, w, G, B, w, R, G, B, R, G, B, G, B

Total leaves = 26

Height of tree = 3

(2)

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(iv)

(a)

It is not Full m-ary tree because the child vertices are not same as of parent.

(b)

It is balanced m-ary tree because leaves exist on level h.

(v)

Pre-Orders:-

- Nothing is like 127.0.0.1
- Nothing is like 127.0.0.1, men, women
- Nothing is like 127.0.0.1, Men, S, M, L, XL, XXL, women, M, L, XL, XXL
- Nothing is like 127.0.0.1, Men, S, W, G, B, M, W, G, B, L, W, G, B, XL, W, B, XXL, W, B, Women, M, R, W, G, B, L, W, R, G, B, XL, R, G, B, XXL, G, B

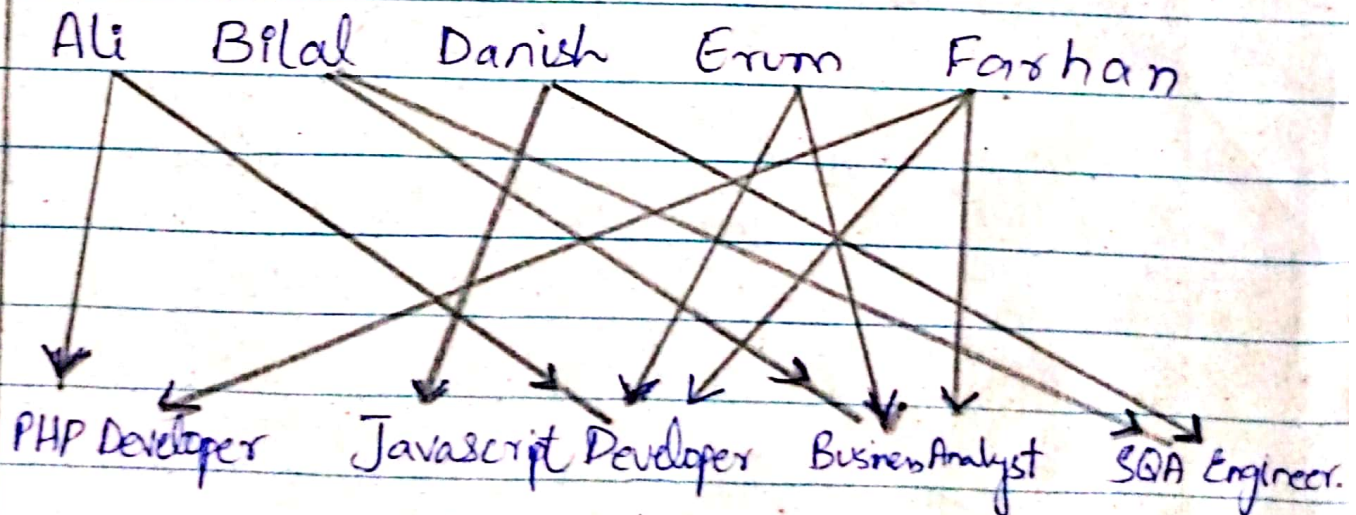
(3)

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Post Order: Nothing is like 127.0.0.1

- Men, Women, Nothing is like 127.0.0.1
- S, M, L, XL, XXL, Men, M, L, XL, XXL, Women, Nothing is like 127.0.0.1
- W, G, B, S, W, G, B, M, W, G, B, L, W, B, XL, W, B, XXL, Men, R, W, G, B, M, W, R, G, B, L, R, G, B, XL, G, B, XXL, Women, Nothing is like 127.0.0.1

(i)



Bipartite Graph is used to model job of employees.