```
Hungarian(G)
    for each vertex l \in L
        l.h = \max\{w(l,r) : r \in R\} // from equation (25.1)
    for each vertex r \in R
        r.h = 0
                                       // from equation (25.2)
    let M be any matching in G_h (such as the matching returned by
        GREEDY-BIPARTITE-MATCHING)
    from G, M, and h, form the equality subgraph G_h
        and the directed equality subgraph G_{M,h}
    while M is not a perfect matching in G_h
        P = \text{FIND-AUGMENTING-PATH}(G_{M,h})
        M = M \oplus P
        update the equality subgraph G_h
10
             and the directed equality subgraph G_{M,h}
    return M
```