```
\operatorname{Huffman}(C)
1 n = |C|
Q = C
   for i = 1 to n - 1
        allocate a new node z.
        x = \text{EXTRACT-MIN}(Q)
        y = \text{EXTRACT-MIN}(Q)
6
        z.left = x
        z.right = y
        z..freq = x.freq + y.freq
        INSERT(Q, z)
10
   return EXTRACT-MIN(Q)
                                   ## the root of the tree is the only node left
11
```