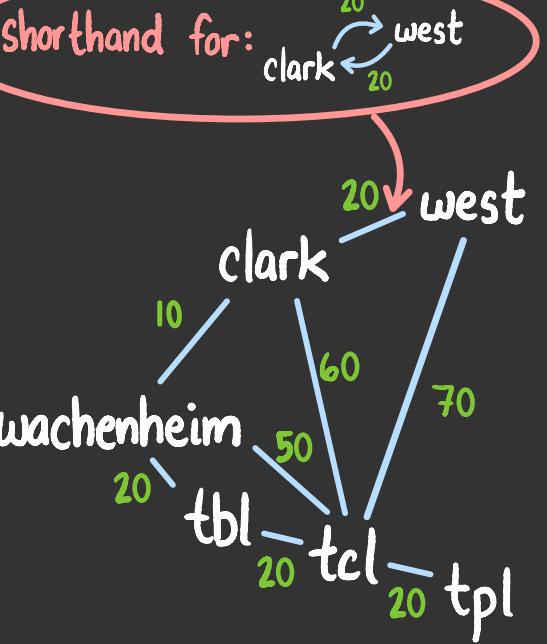
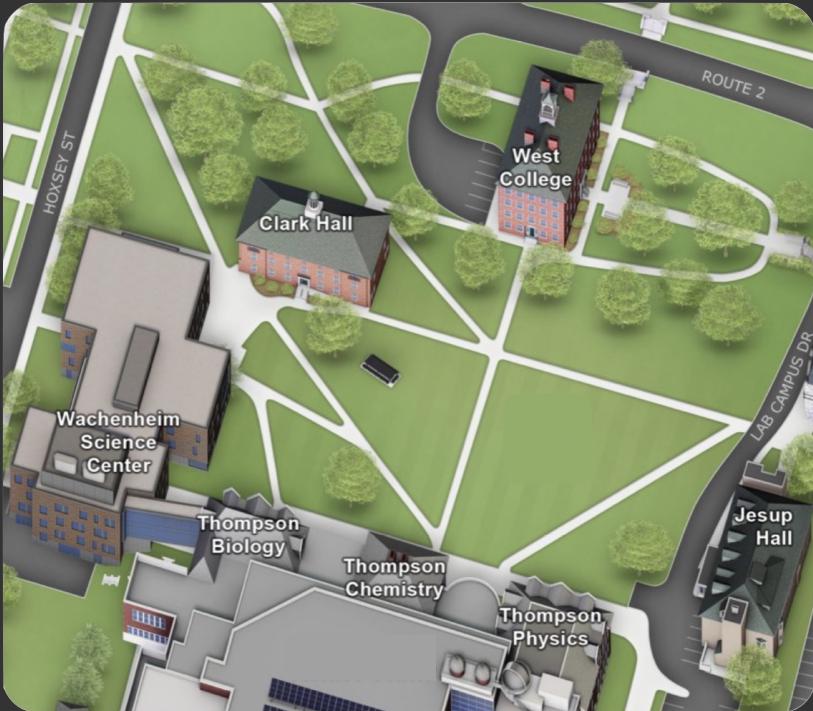
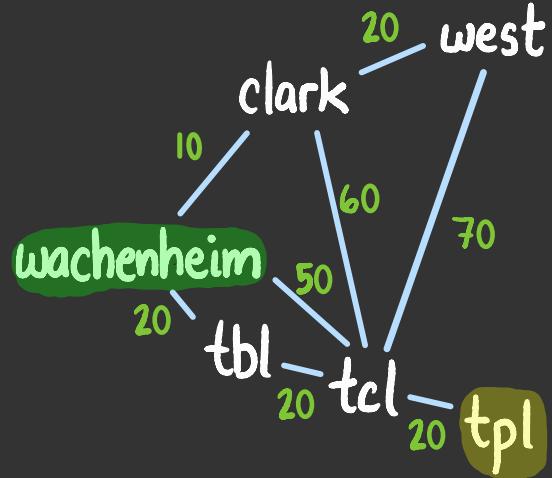
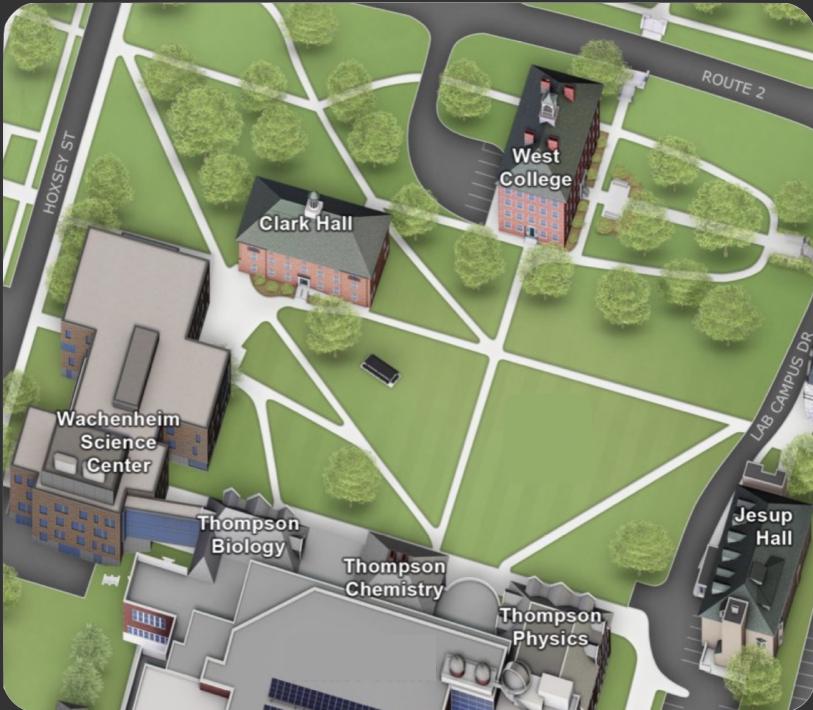


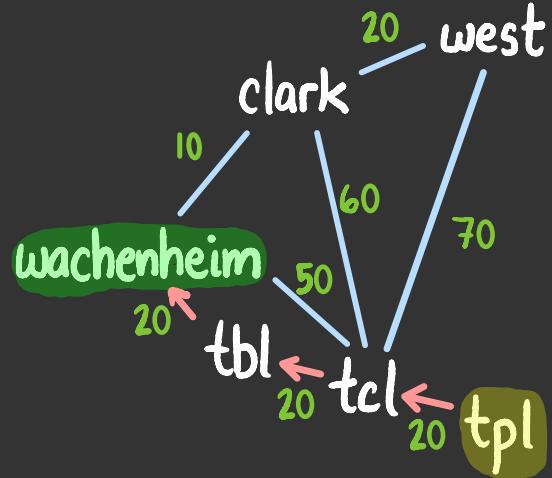
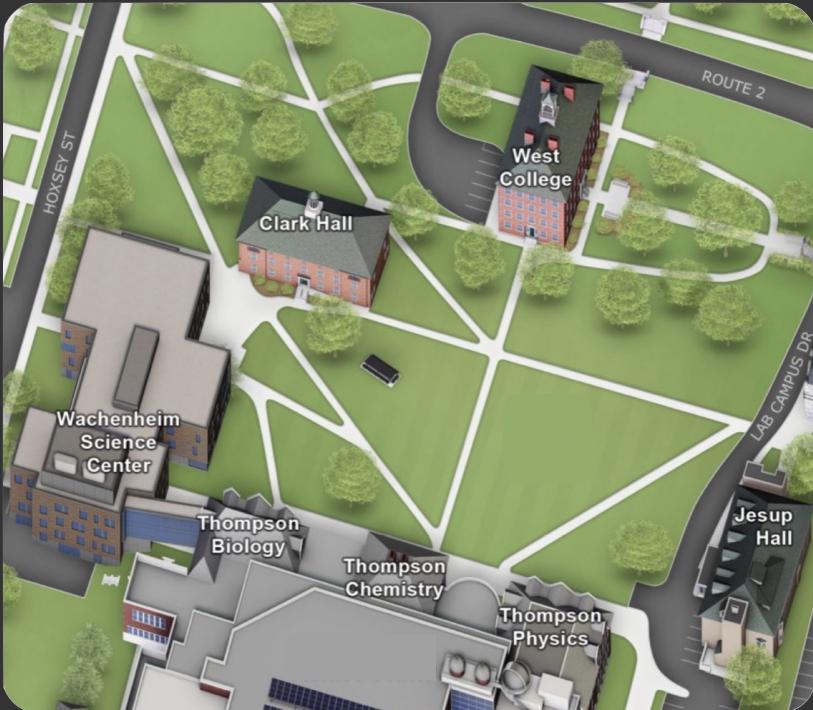
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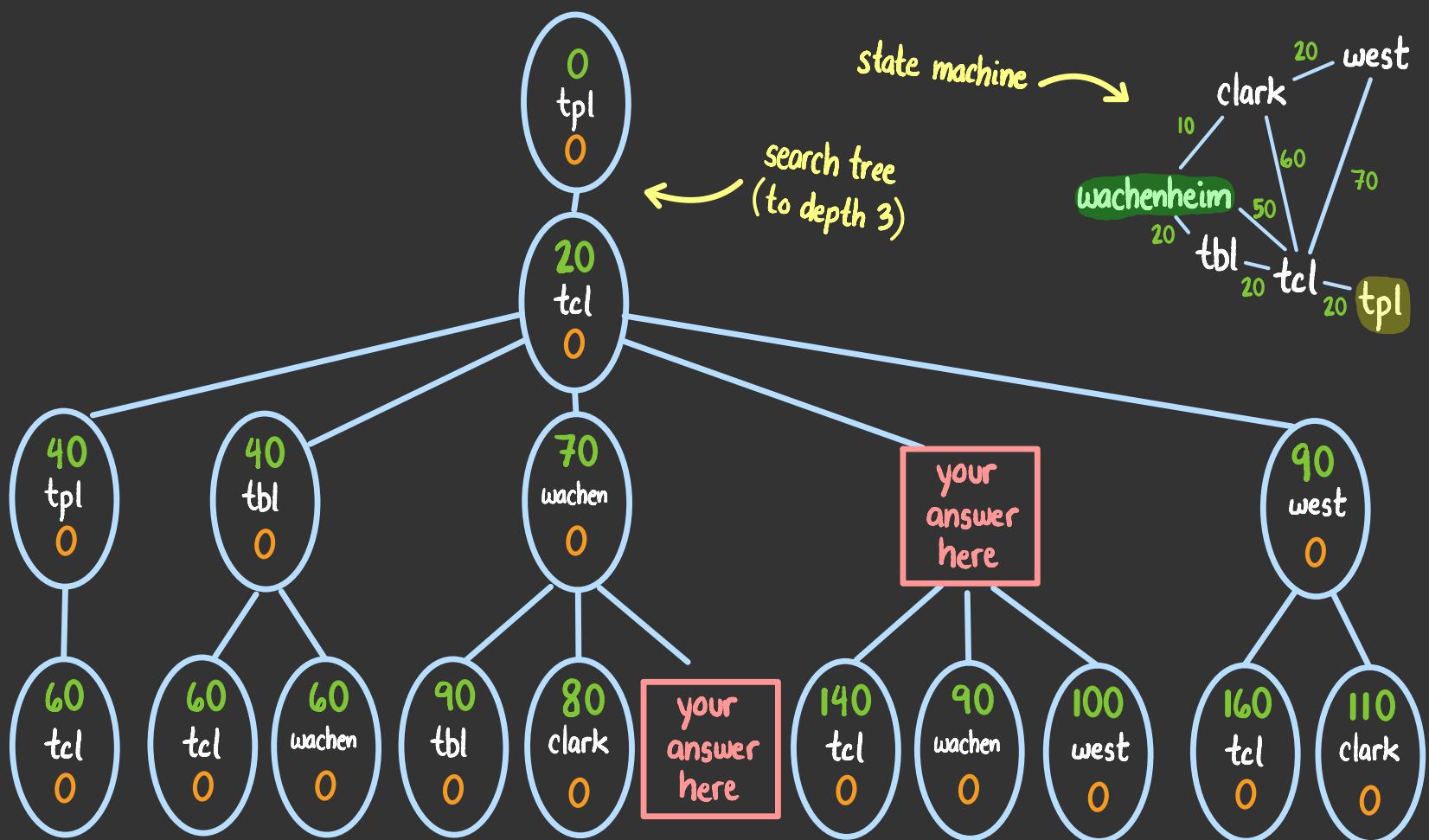


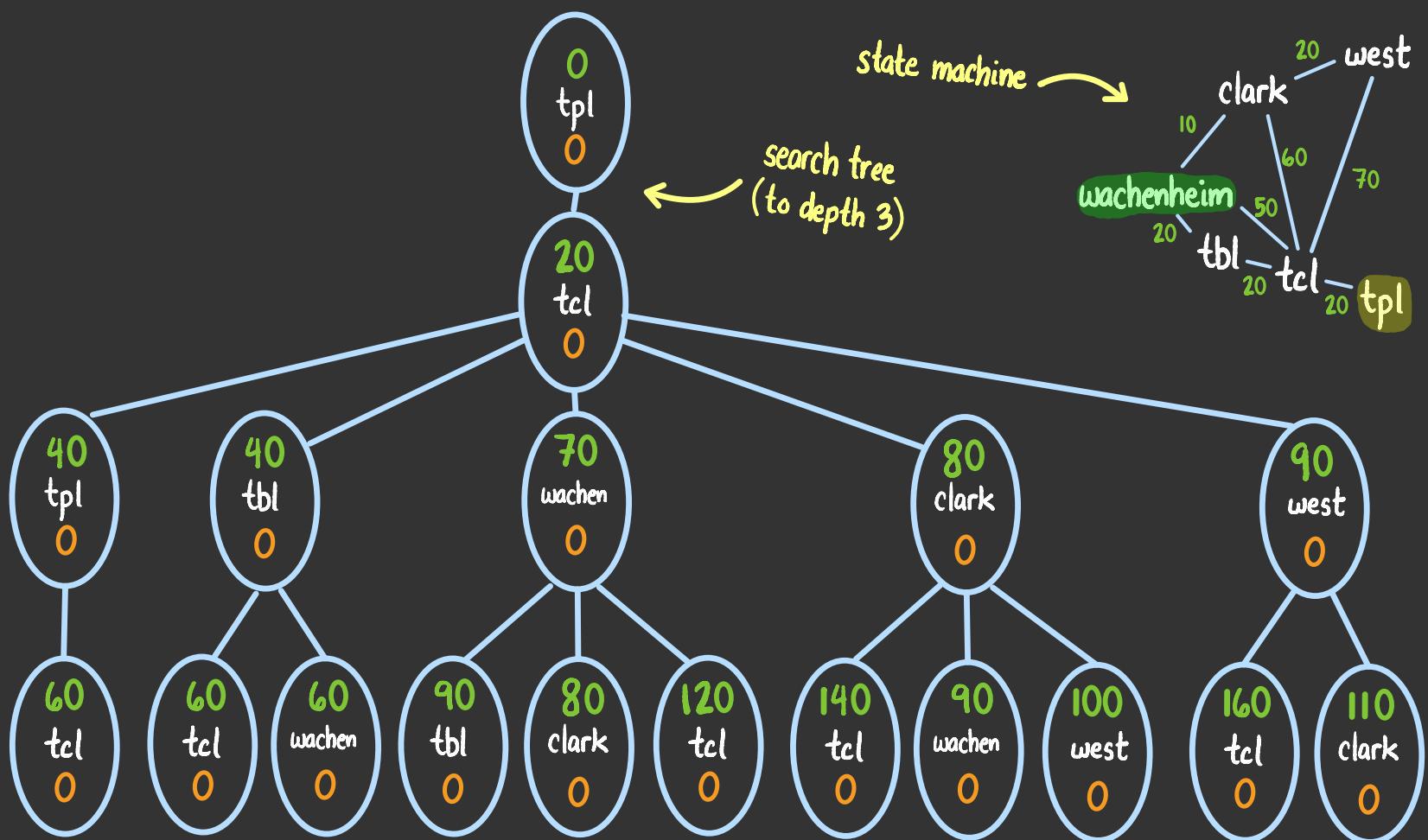


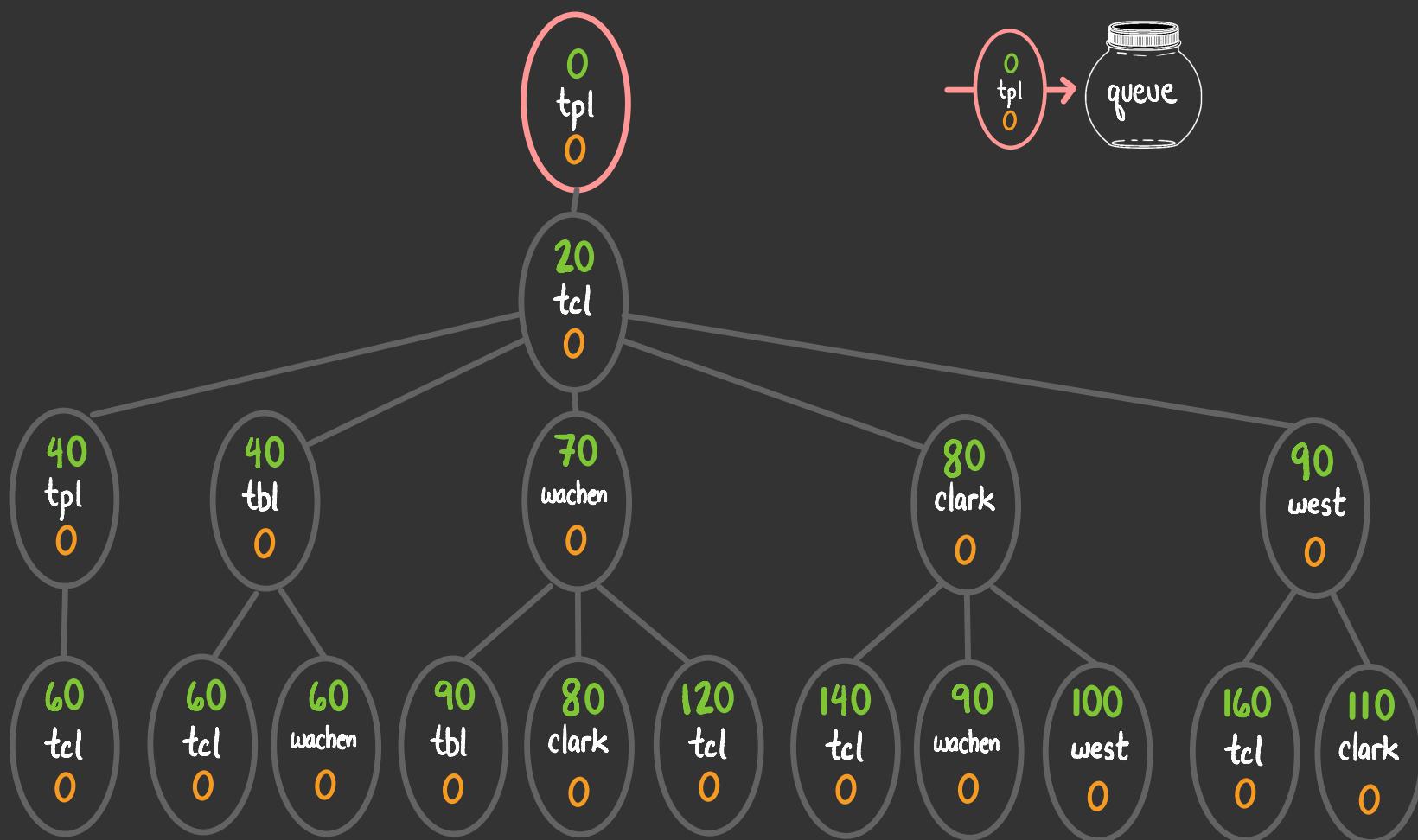
what is the shortest path from tpl to wachenheim?

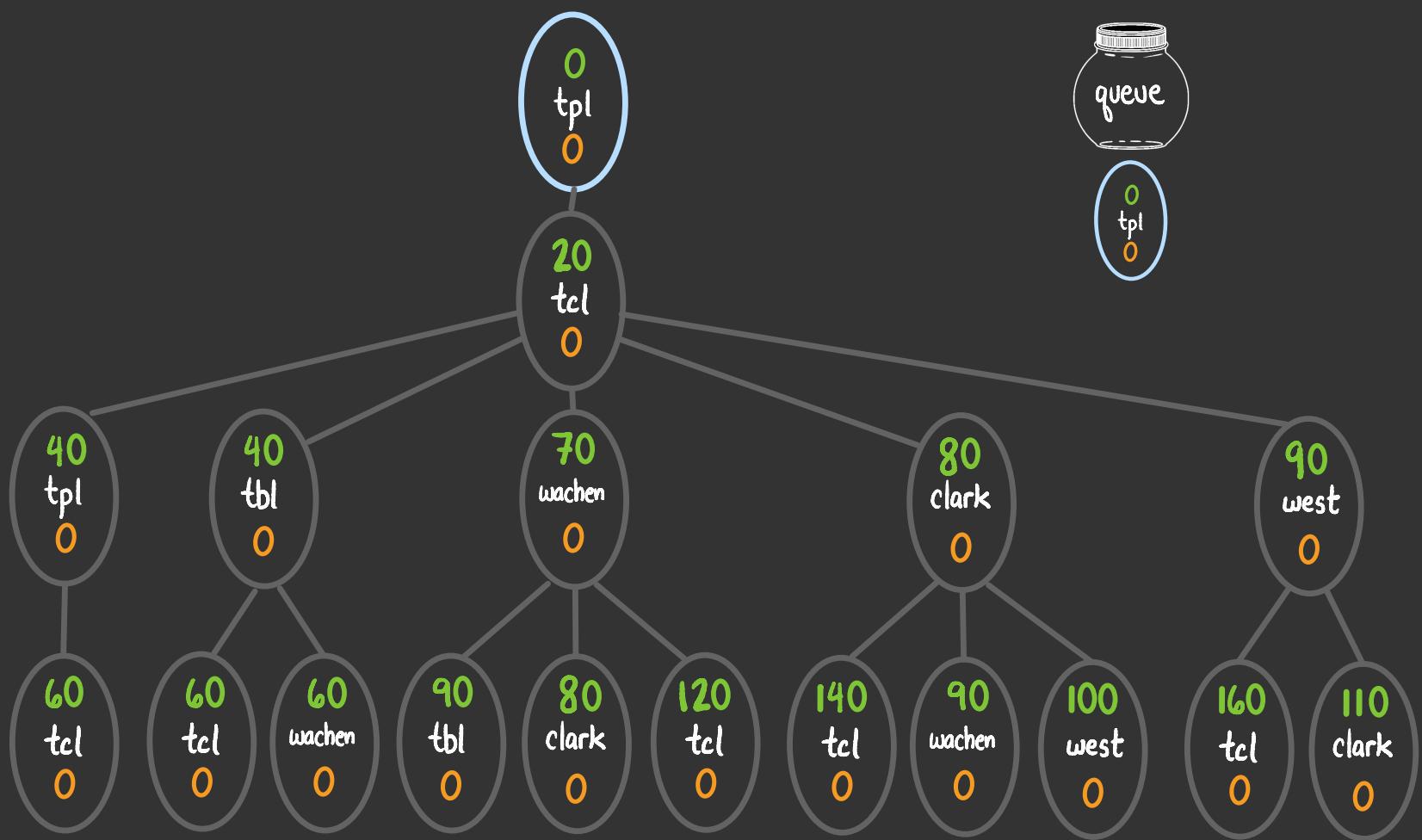


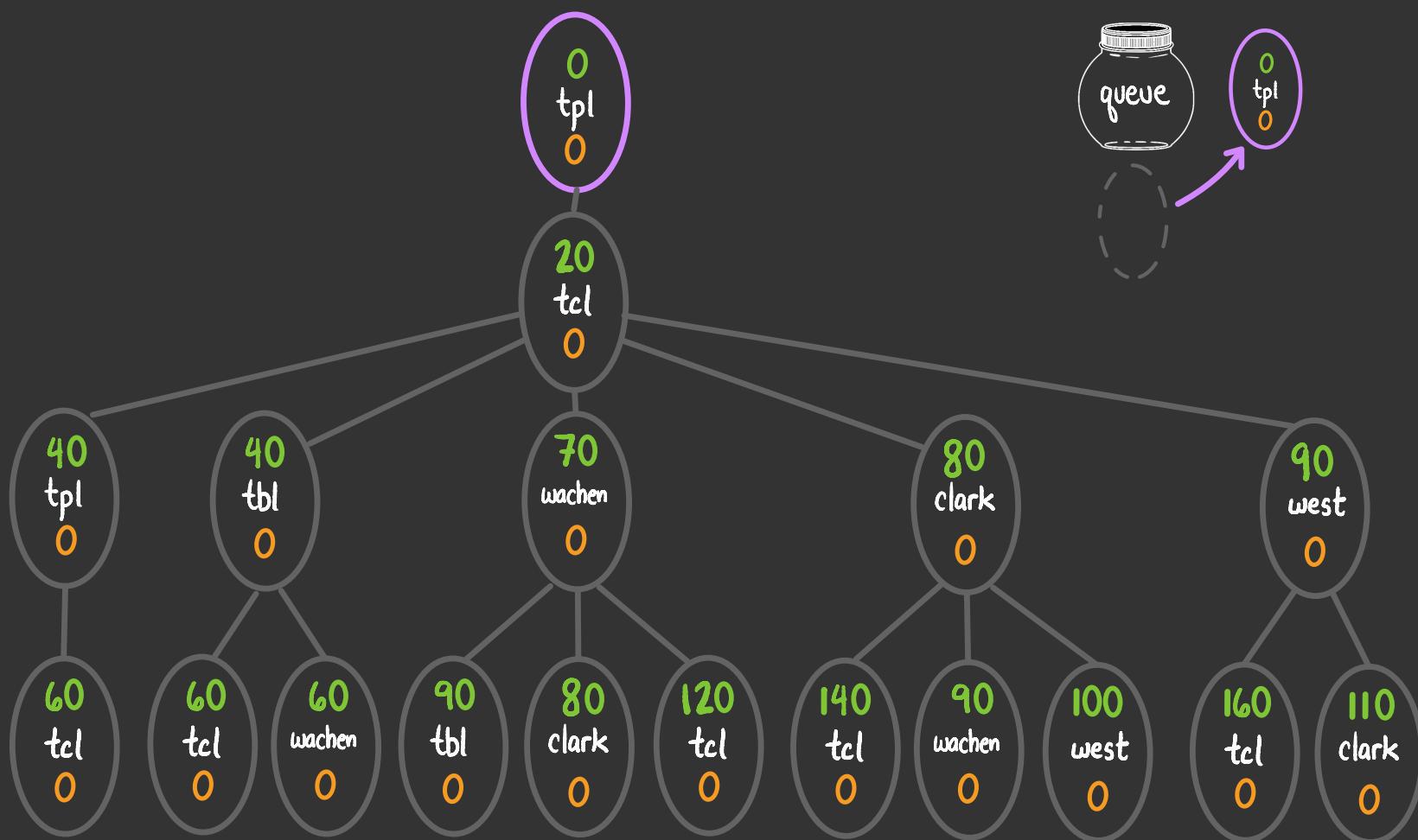
what is the shortest path  
from tpl to wachenheim?

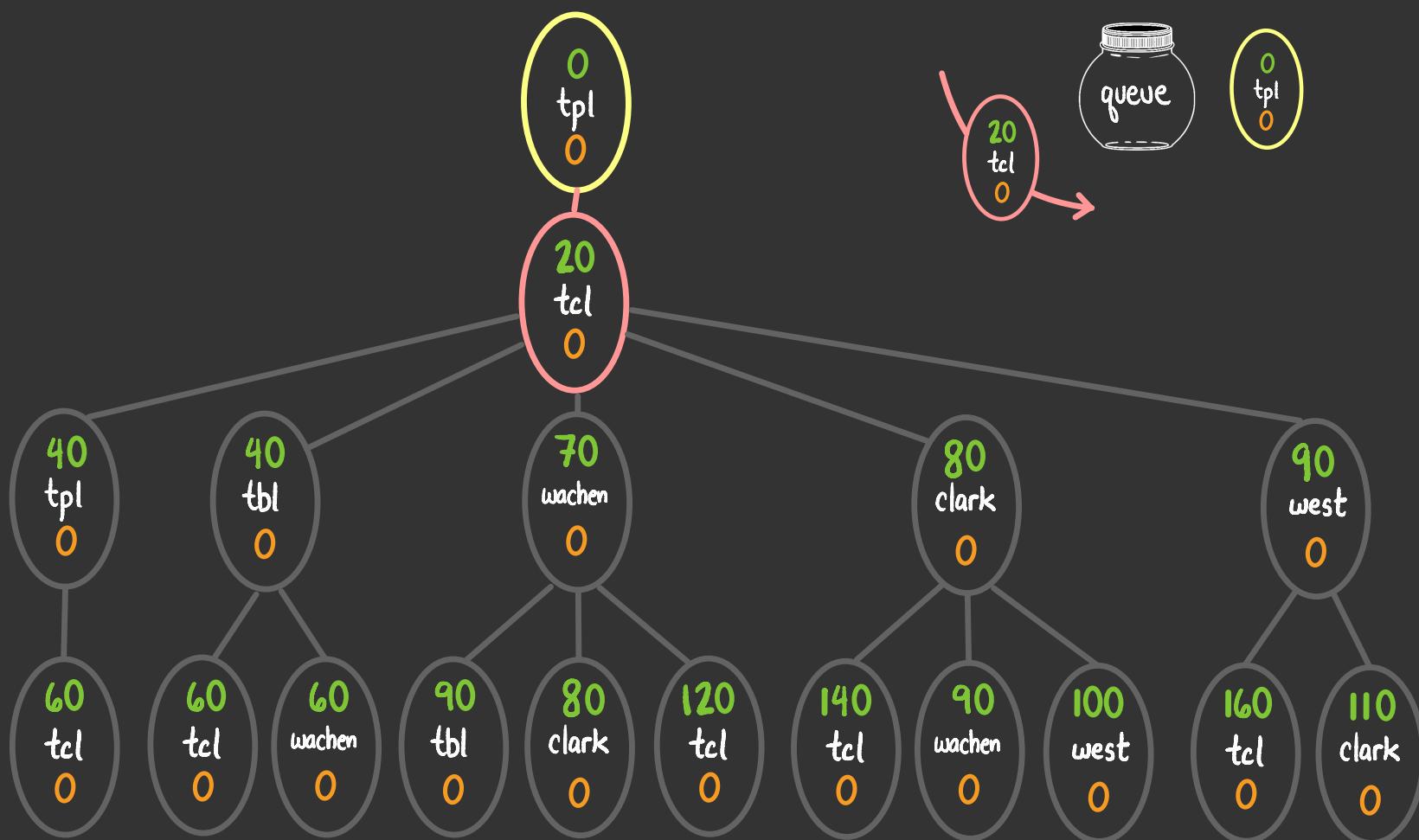


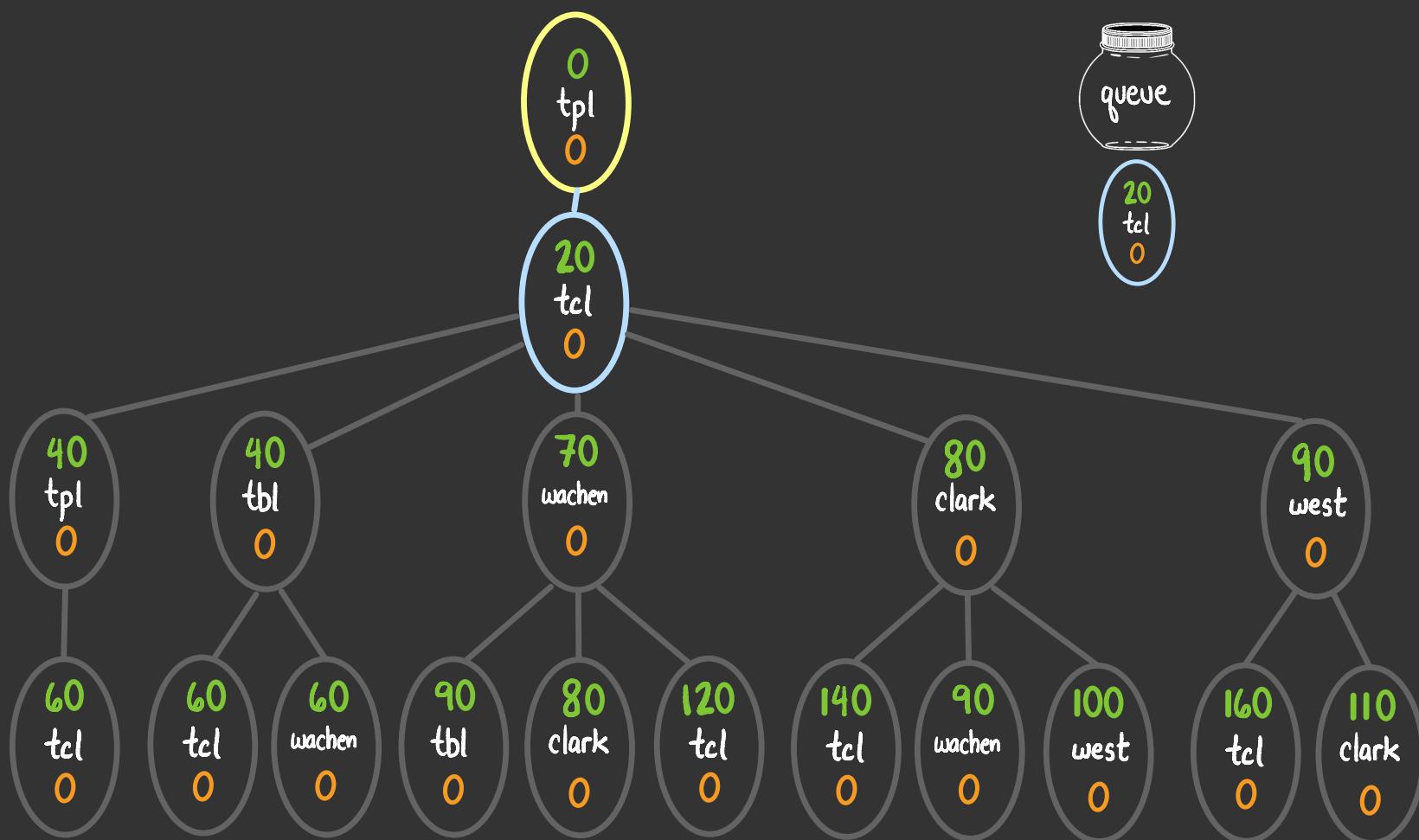


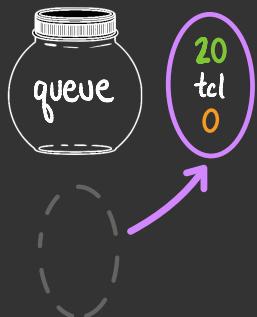
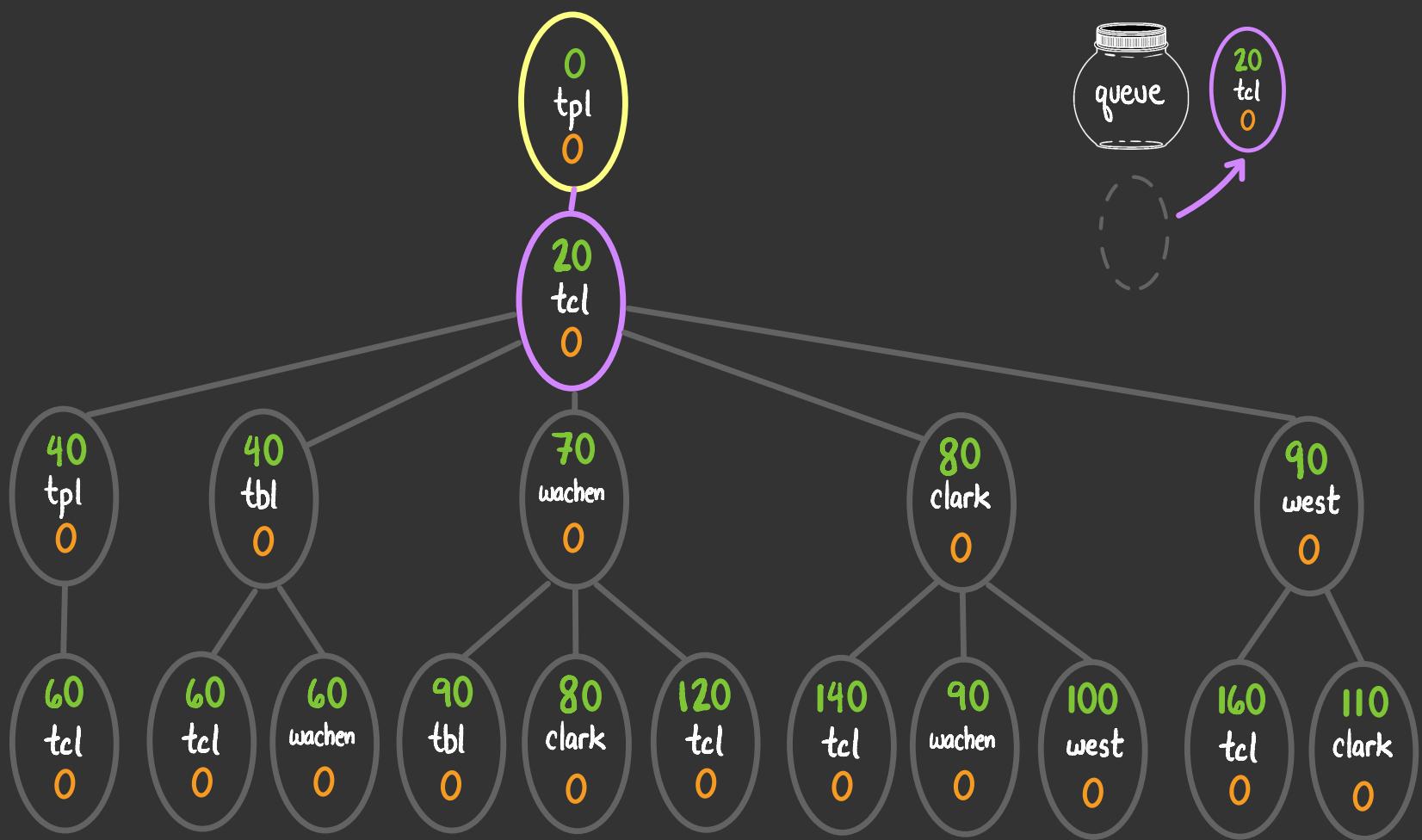


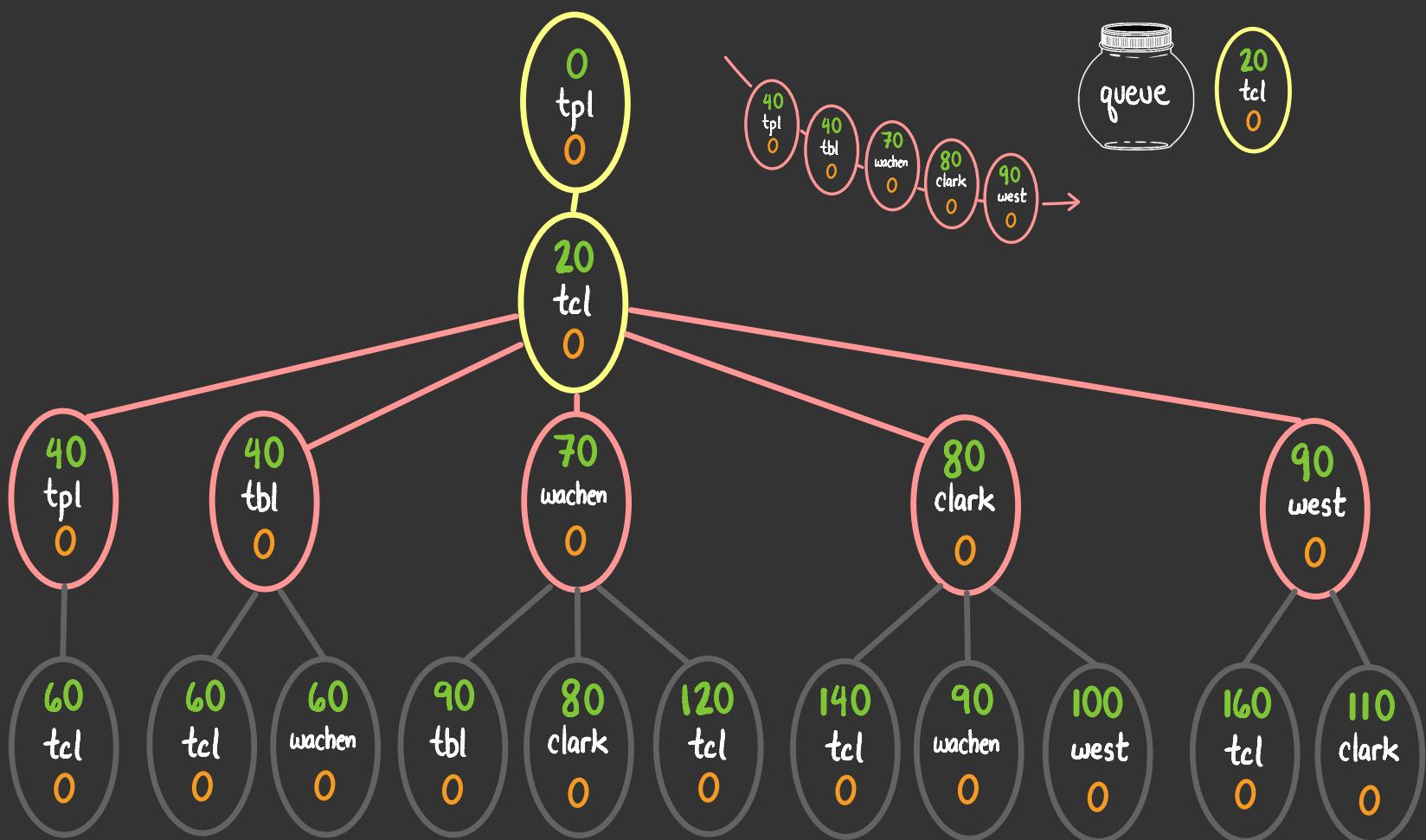


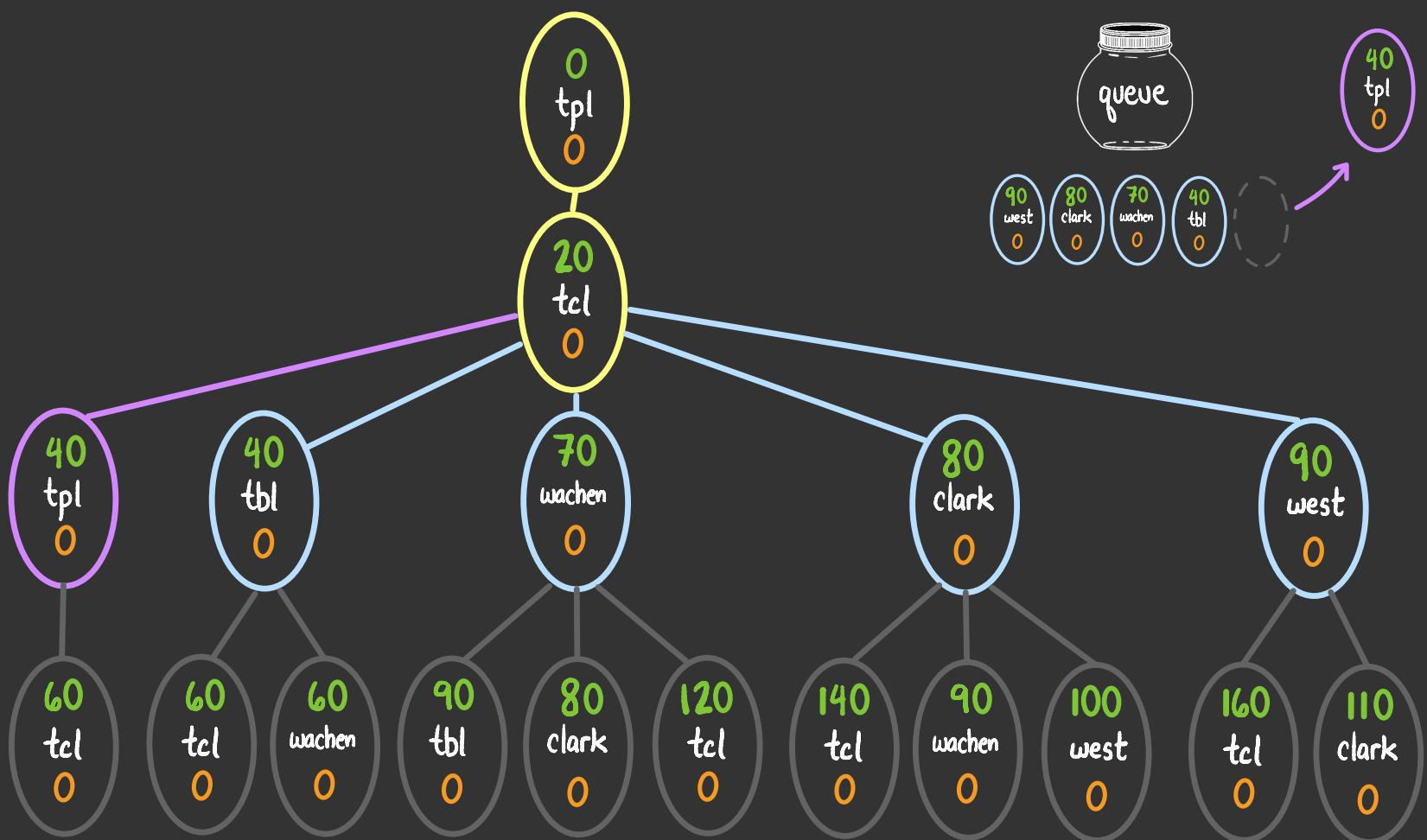


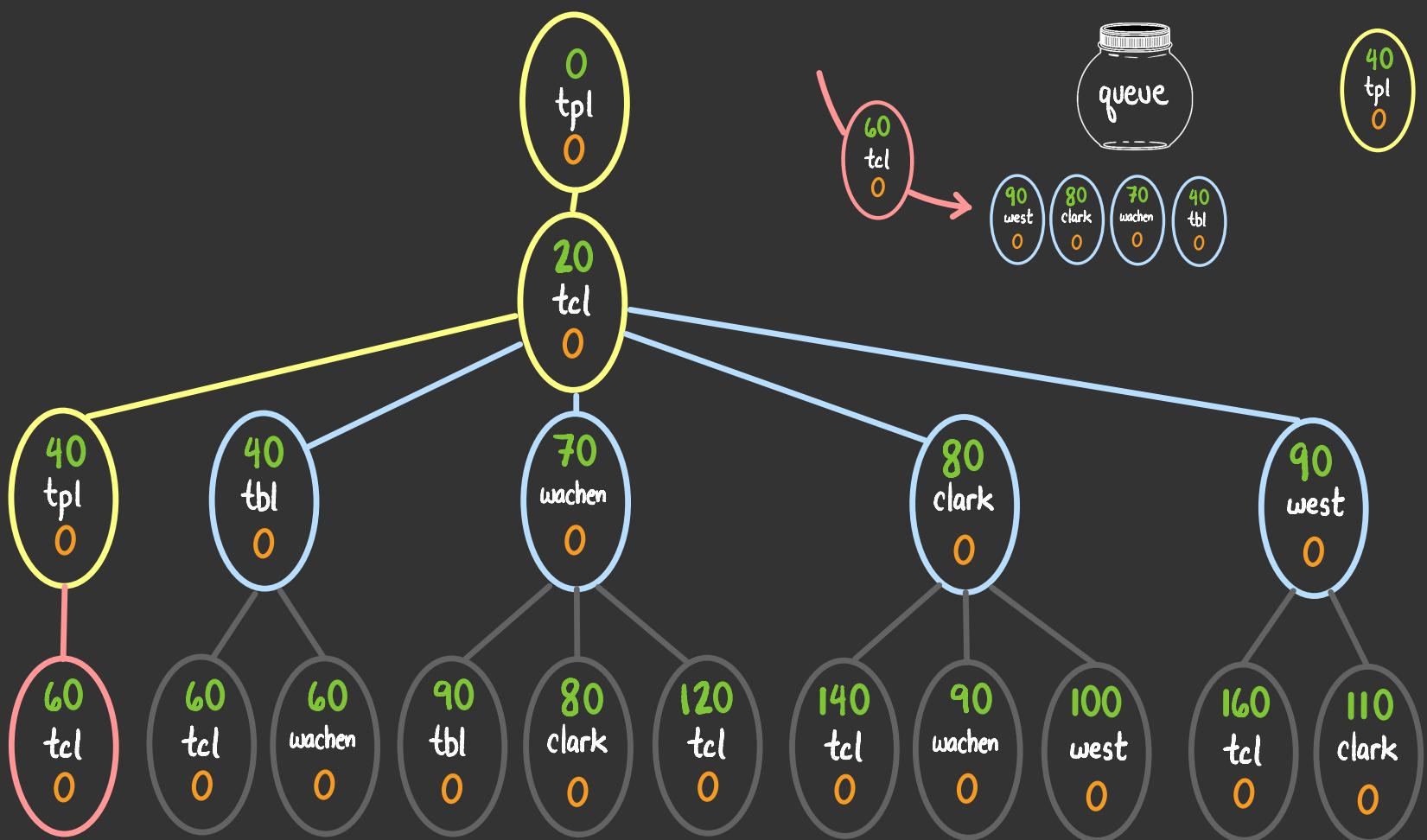


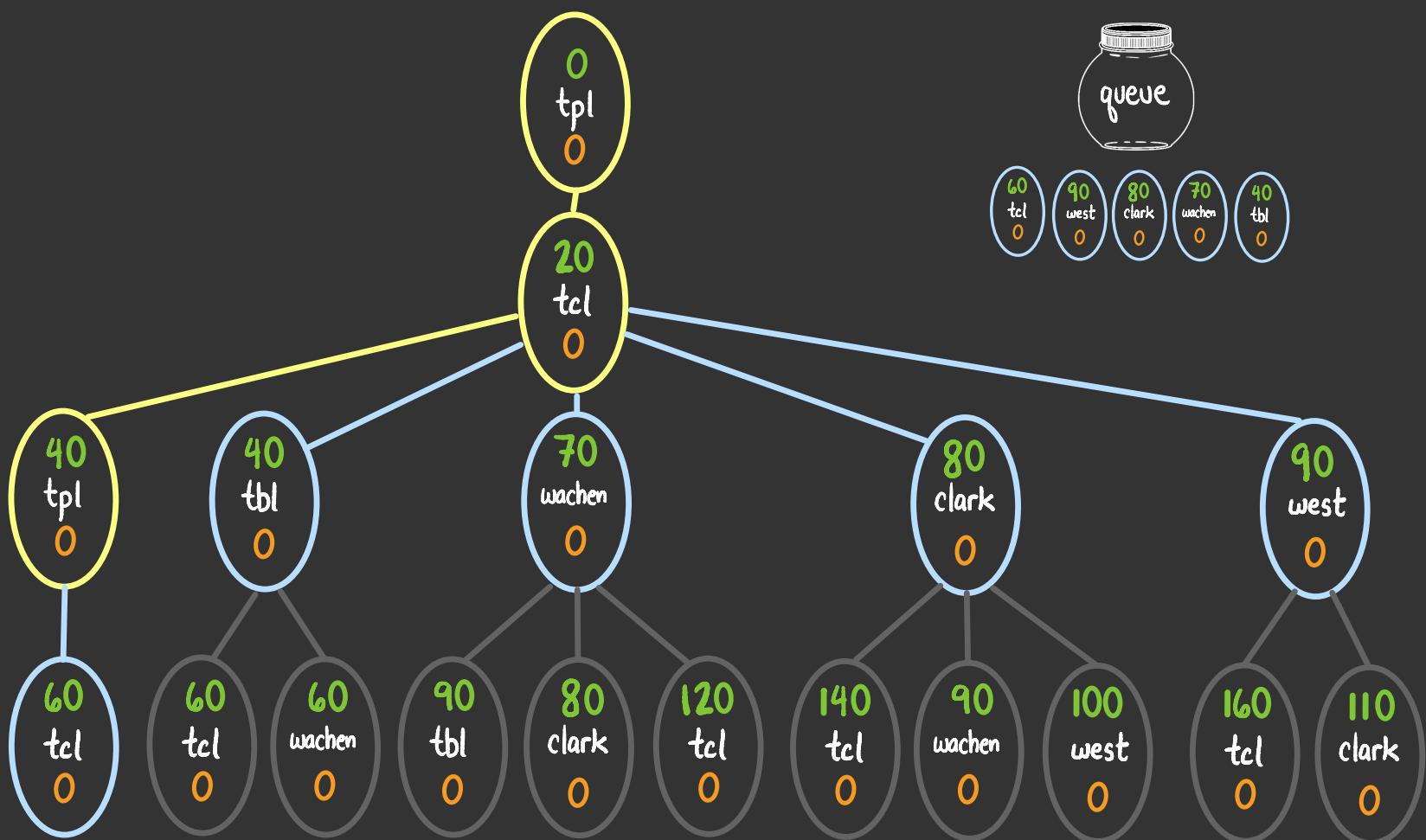


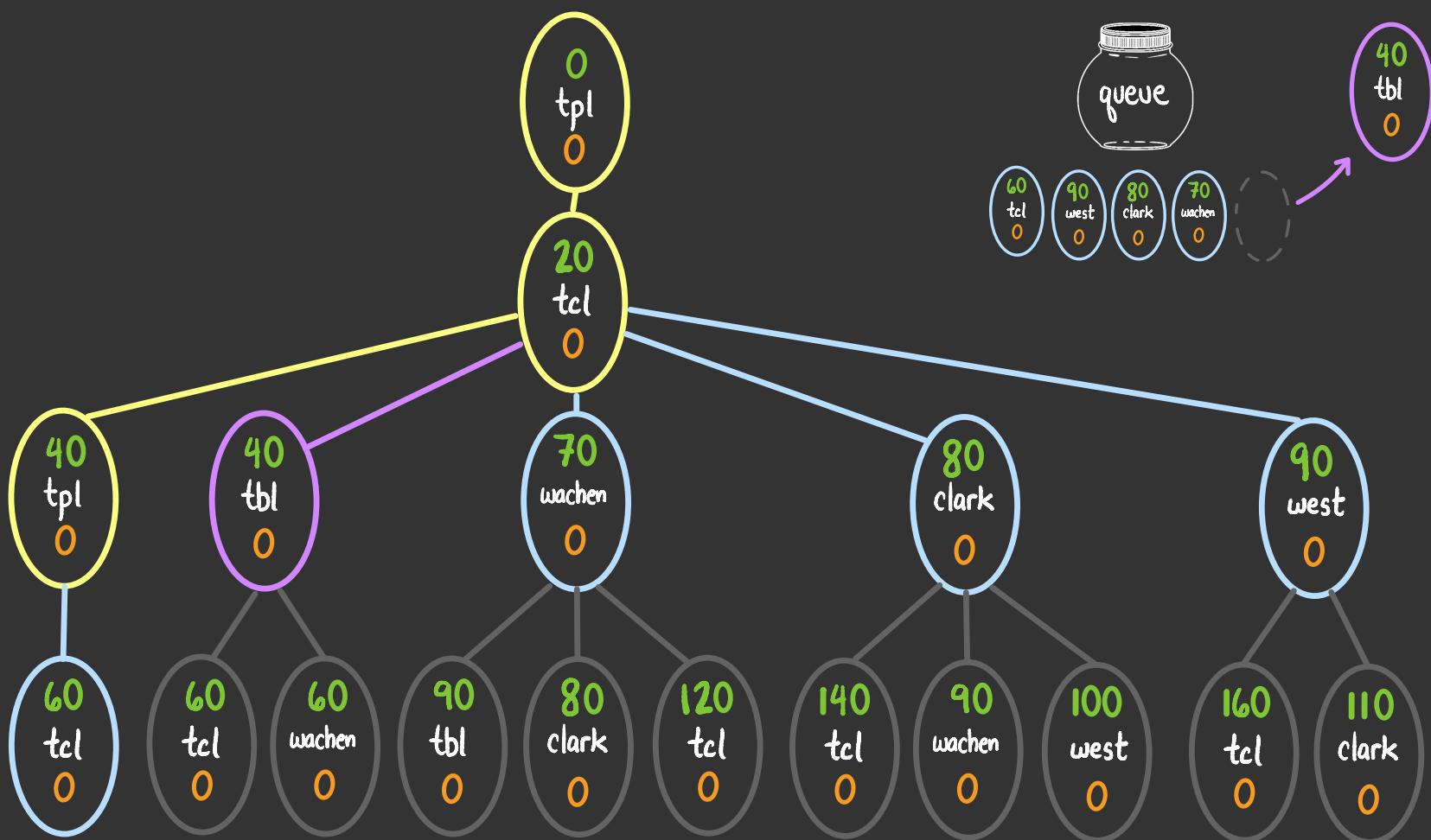


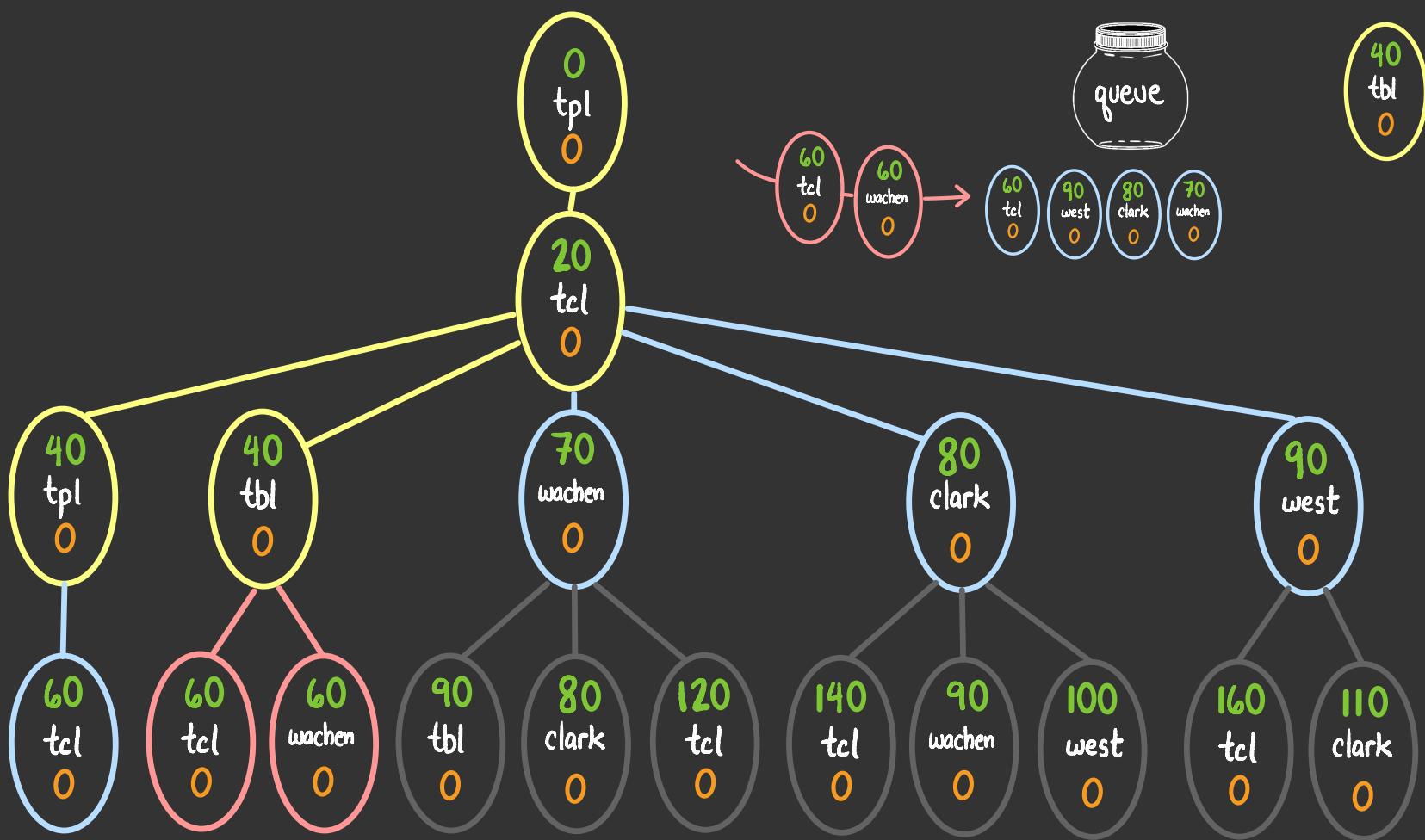


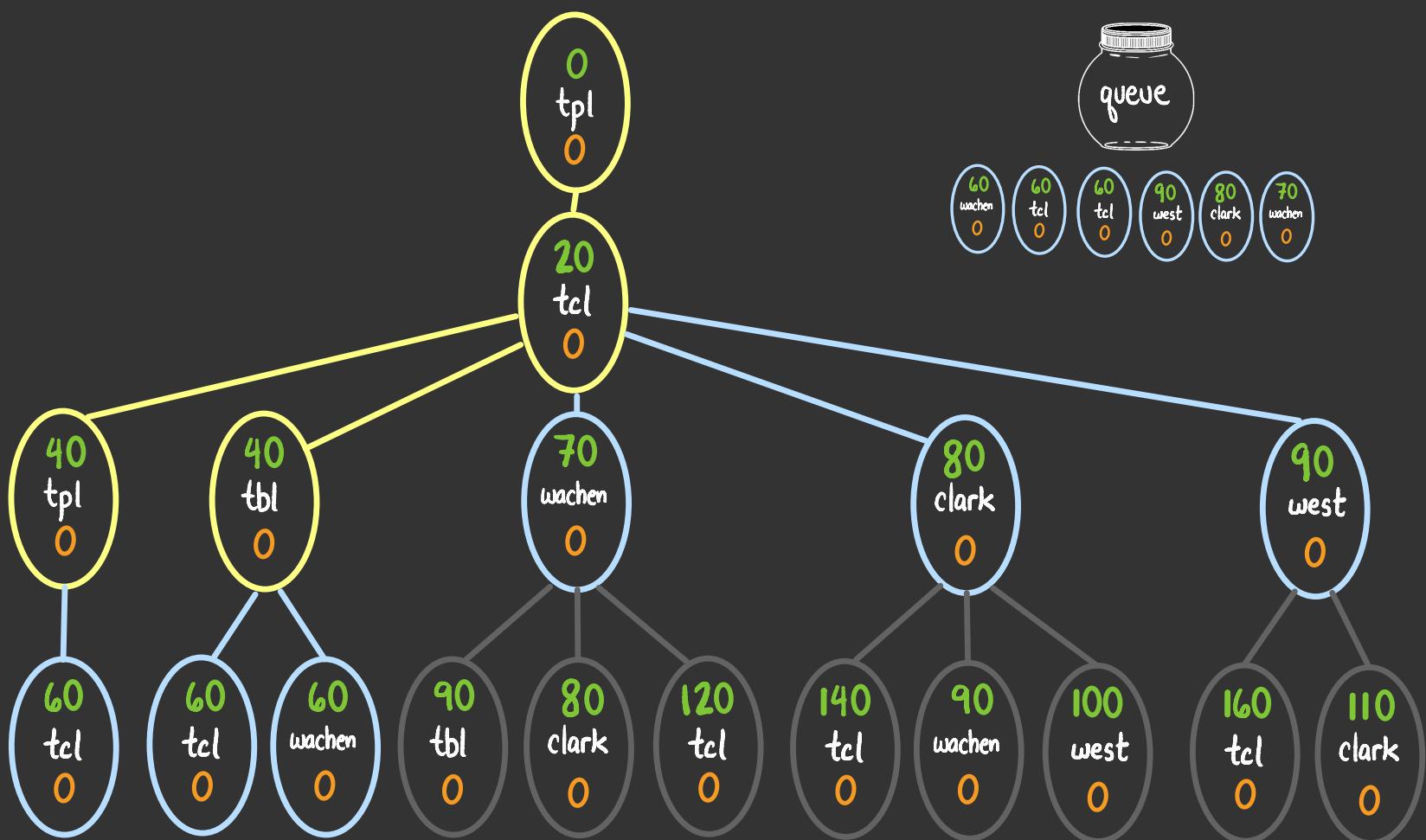


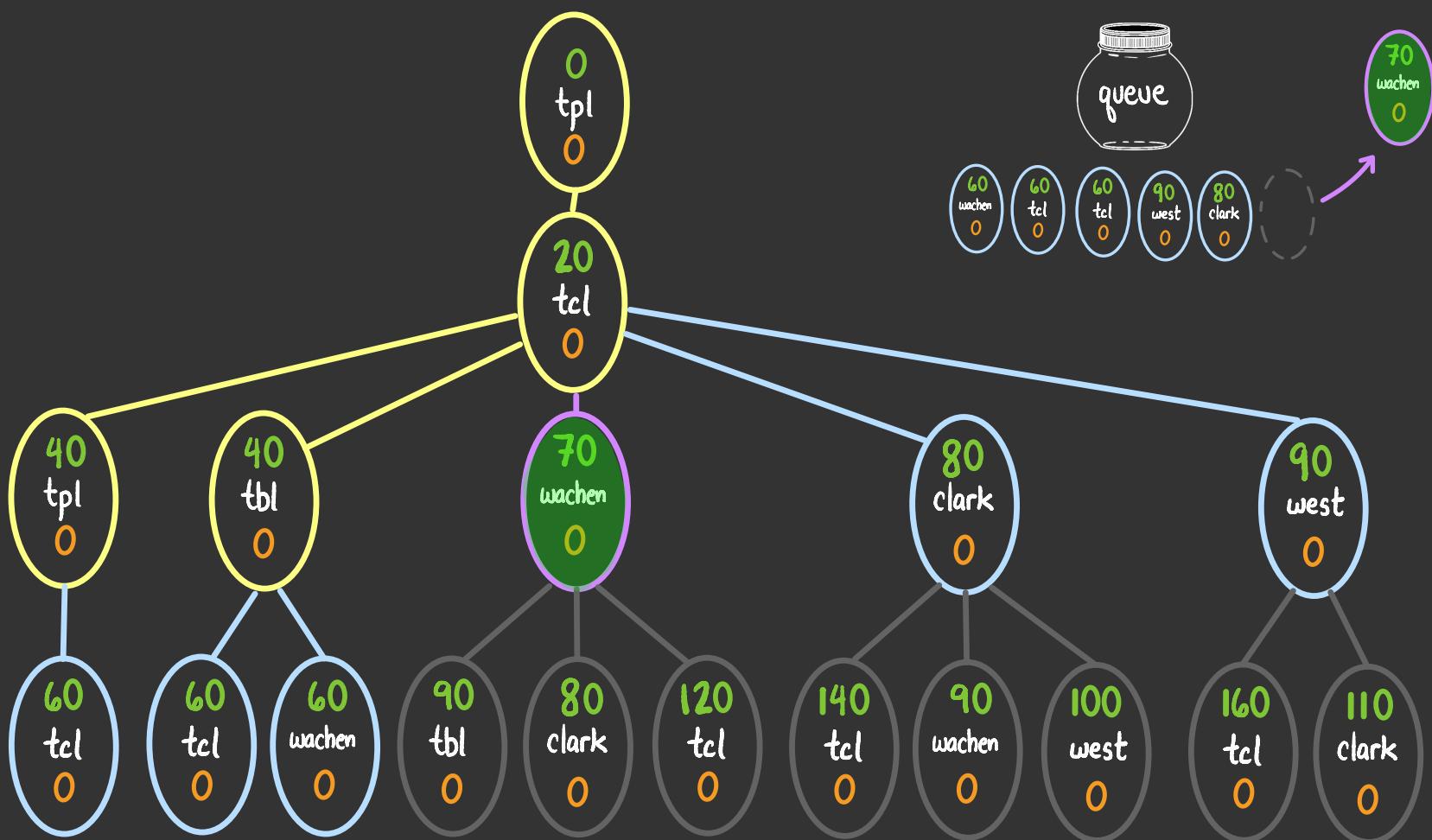


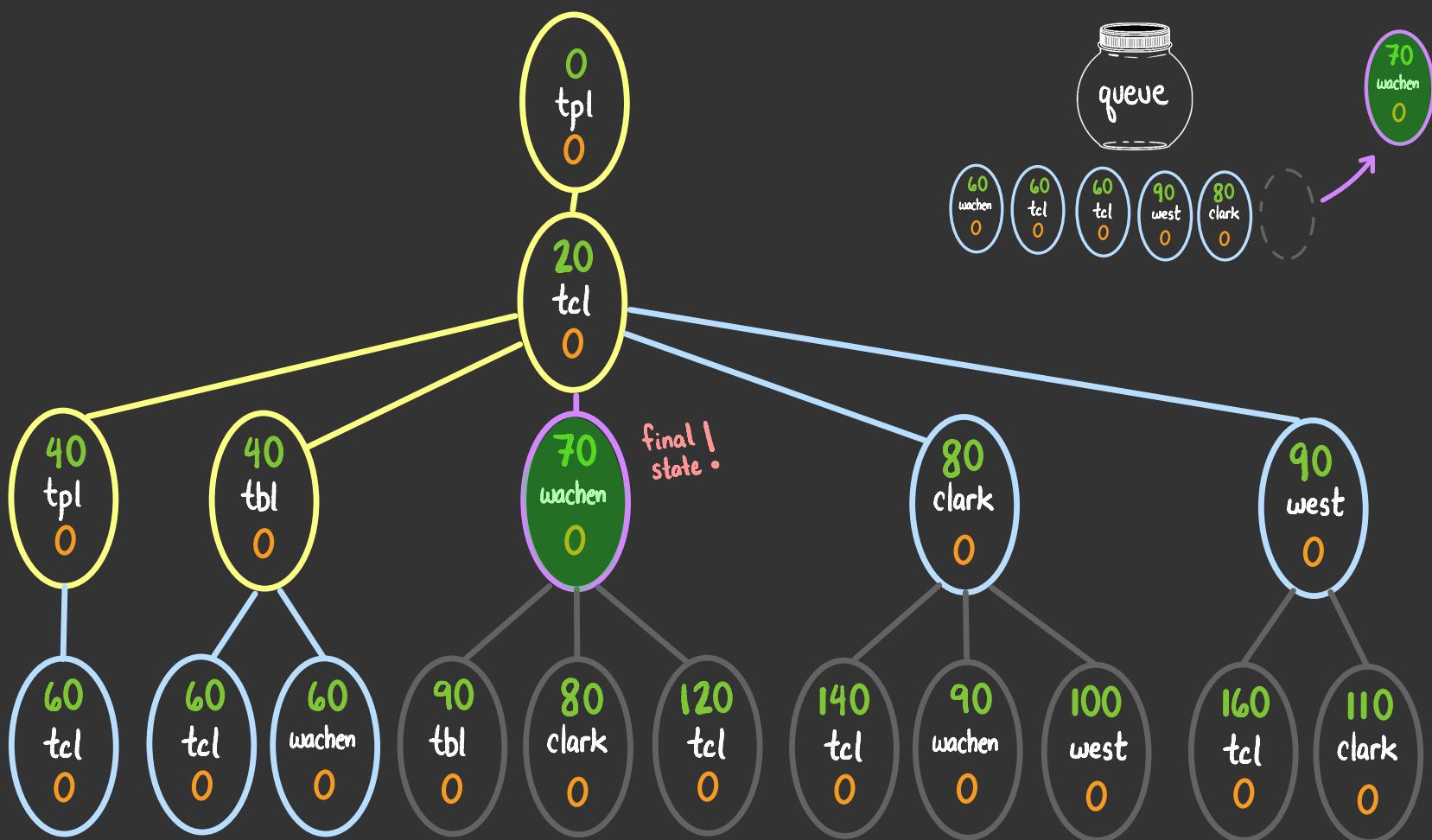


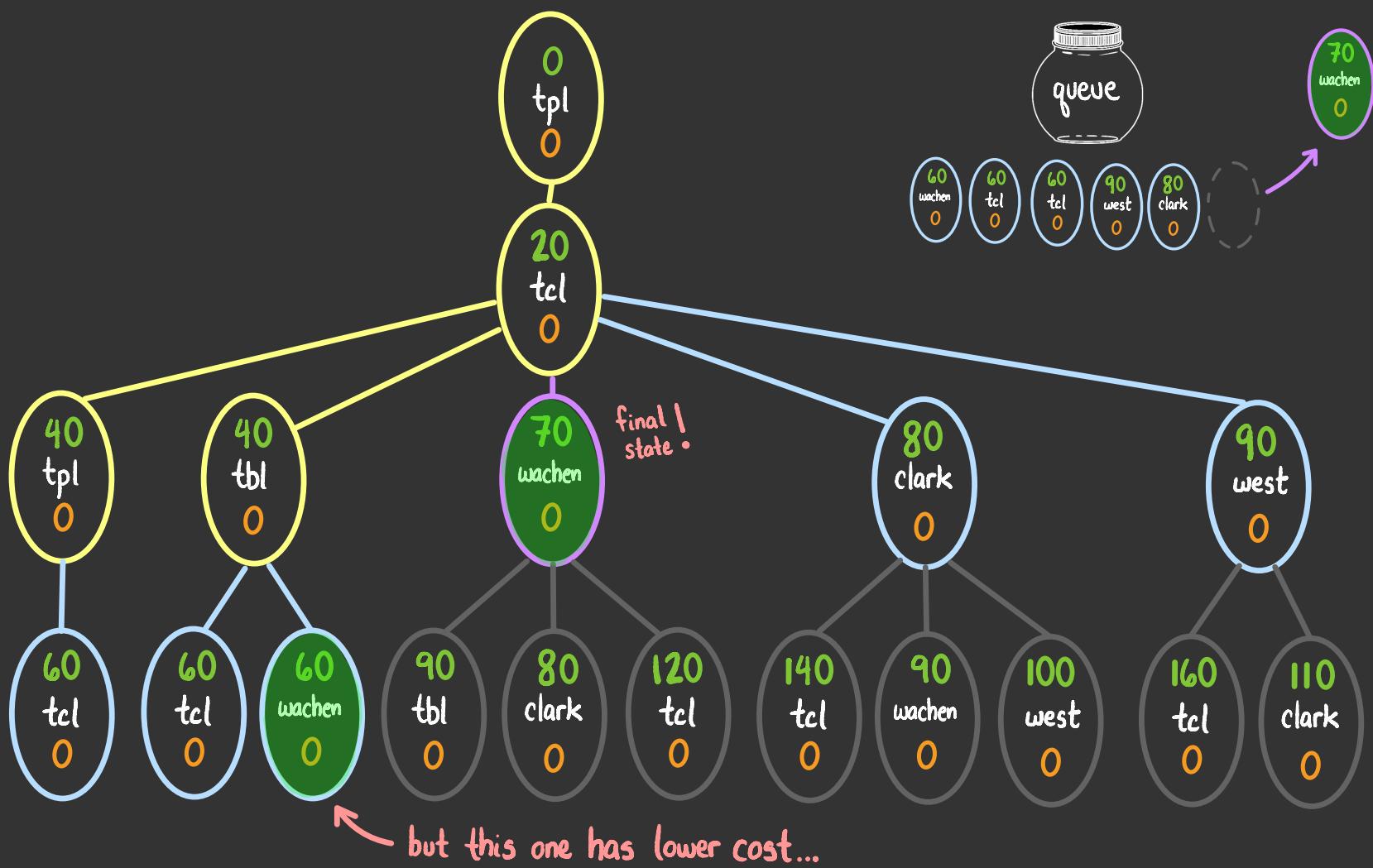


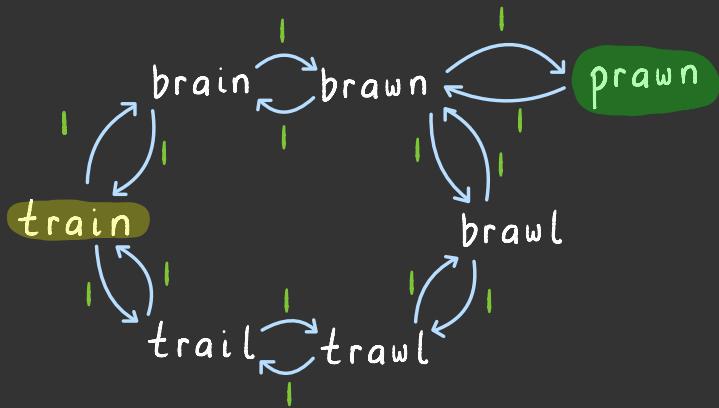








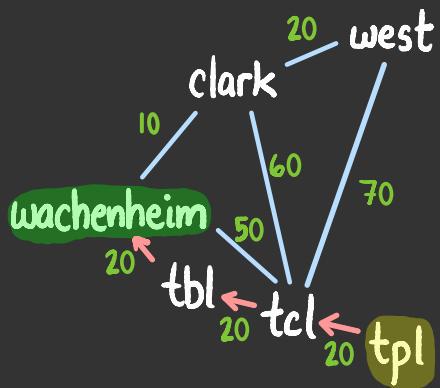




if all transitions have  
the same weight, then BFS  
is optimal

because of this:

if  $j < k$ , then every node  
at search depth  $j$  is  
visited before any node  
at search depth  $k$



otherwise optimality  
is not guaranteed