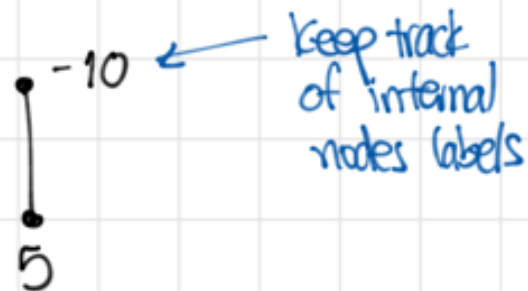


$1 \rightarrow -5$ $4 \rightarrow -9$
 $2 \rightarrow -5$ $-5 \rightarrow 1, 2$
 $3 \rightarrow -7$ $-6 \rightarrow -5, -7, -8$
 $-7 \rightarrow 3, -6, -9$
 $-8 \rightarrow -6, -9$
 $-9 \rightarrow 4, -7, -8$

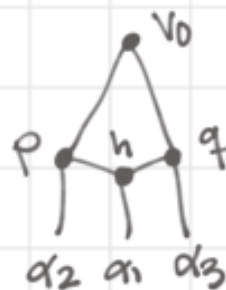
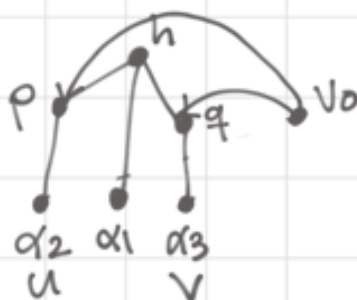
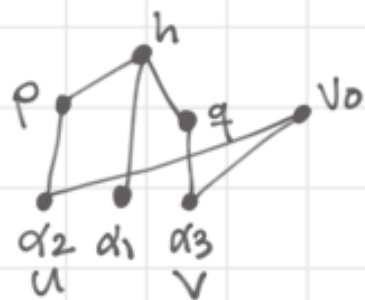
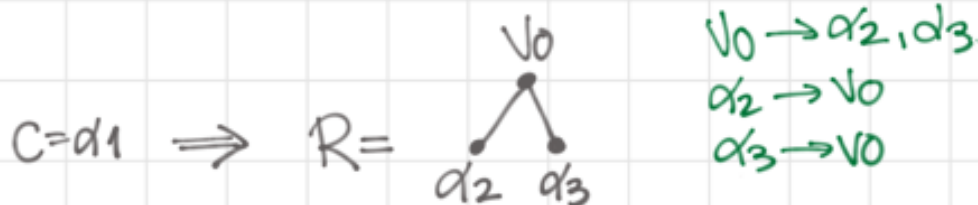
*Adjacency list



$1 \rightarrow -5$ $4 \rightarrow -9$
 $2 \rightarrow -5$ $-5 \rightarrow 1, 2$
 $3 \rightarrow -7$ $-6 \rightarrow -5, -7, -8$
 $-7 \rightarrow 3, -6, -9$
 $-8 \rightarrow -6, -9, -10$
 $-9 \rightarrow 4, -7, -8$

$5 \rightarrow -10$
 $-10 \rightarrow 5, -8$

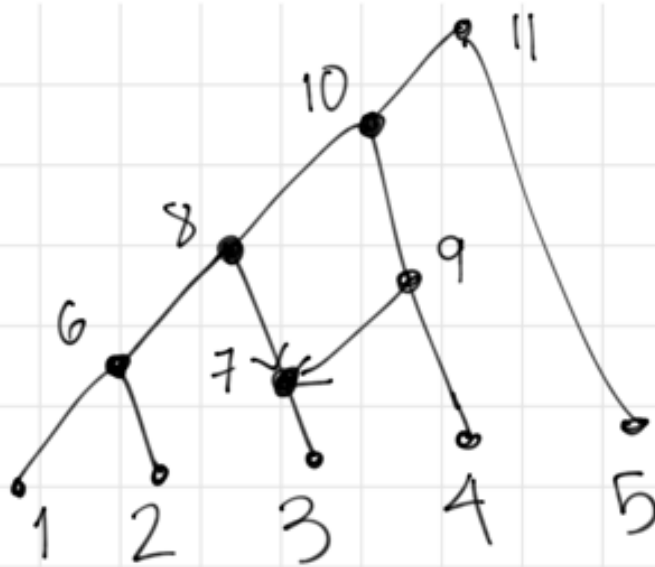
Question: Is adjacency list good for our purposes?



$v_0 \rightarrow d_2, d_3$
 $d_2 \rightarrow v_0, p$
 $d_3 \rightarrow v_0, q$

$v_0 \rightarrow p, q$
 $d_2 \rightarrow p$ $d_3 \rightarrow q$

$p \rightarrow d_2, h$ $h \rightarrow p, d_1, q$ $p \rightarrow d_2, h$ $h \rightarrow p, d_1, q$
 $q \rightarrow d_3, h$ $d_1 \rightarrow h$ $q \rightarrow d_3, h$ $d_1 \rightarrow h$



1 → 6
 2 → 6
 3 → 7
 4 → 9
 5 → 11
 6 → 1, 2, 8
 7 → 8, 9, 3
 8 → 6, 7, 10
 9 → 4, 7, 10
 10 → 8, 9, 11
 11 → 10, 5

* adjacency list to keep in mind

- keep labels unique
- sort the list
- convert to adjacency matrix to get graph