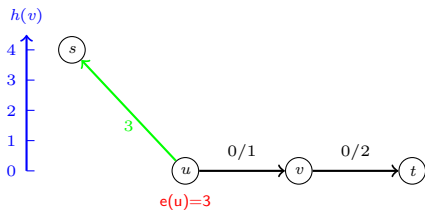
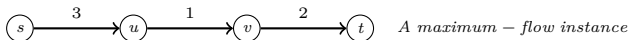


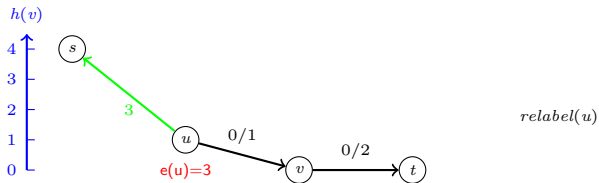
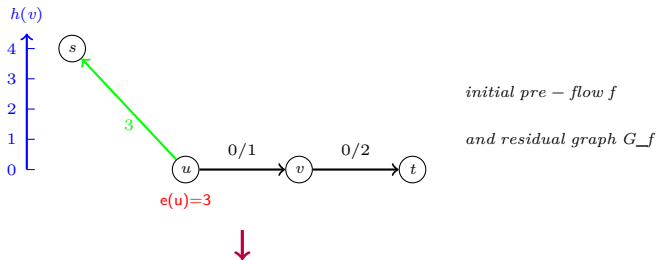
push-relabel Demo Step 1



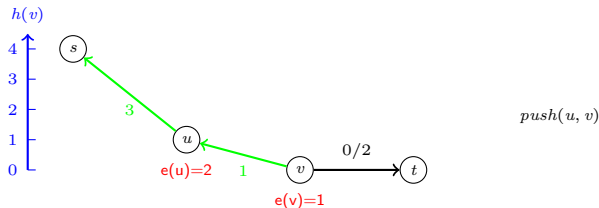
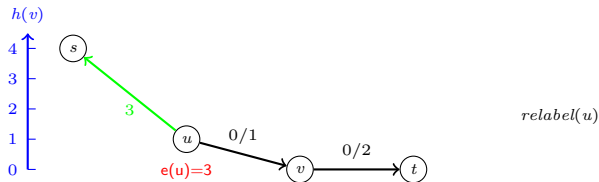
initial pre-flow f

and residual graph G_f

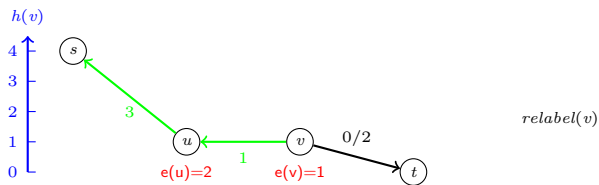
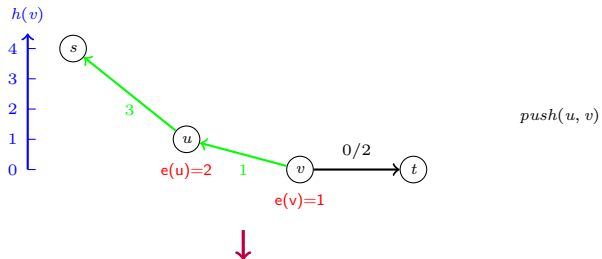
push-relabel Demo Step 2



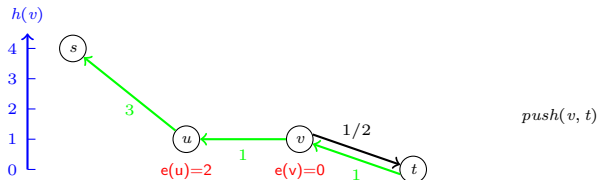
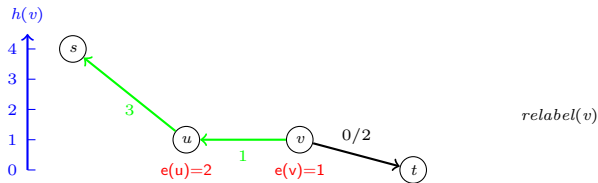
push-relabel Demo Step 3



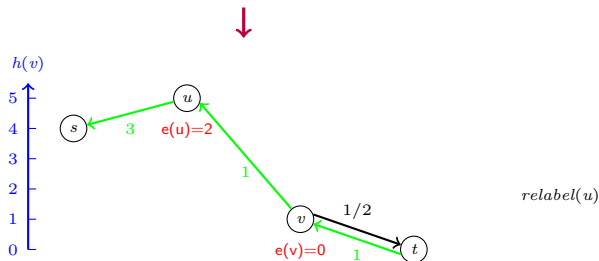
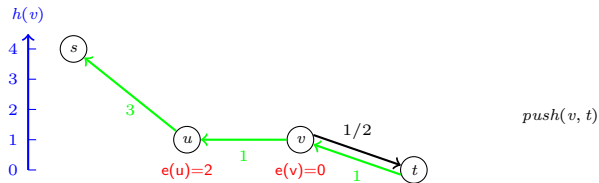
push-relabel Demo Step 4



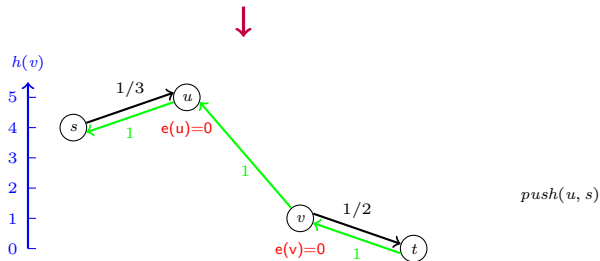
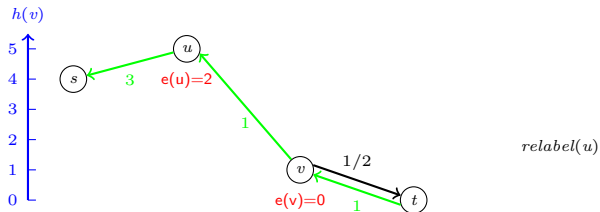
push-relabel Demo Step 5



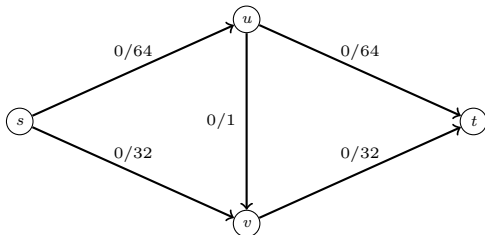
push-relabel Demo Step 6



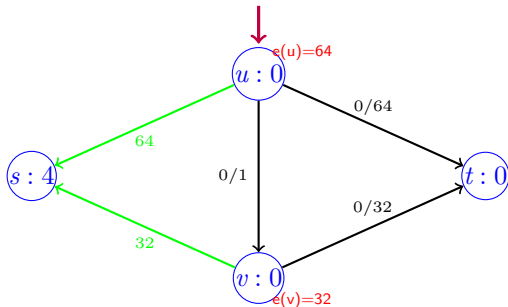
push-relabel Demo Step 7



push-relabel Demo2 Step 1



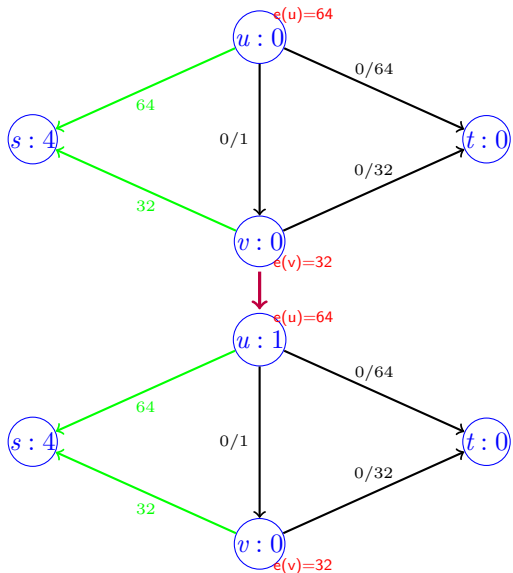
a maximum – flow instance



initial

$S : 4$ indicates that the height of S is 4

push-relabel Demo2 Step 2

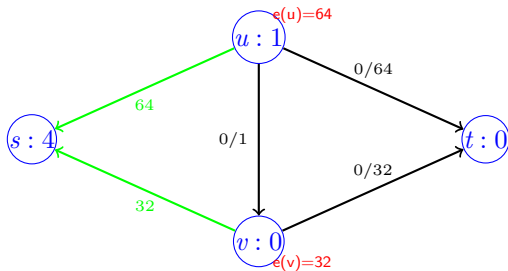


initial

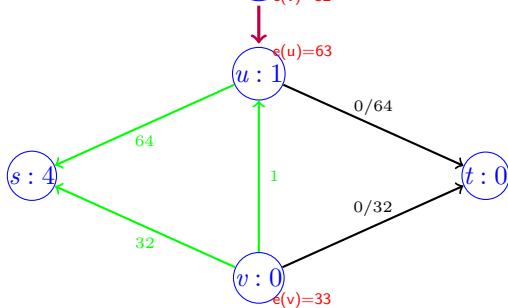
$S : 4$ indicates that the height of S is 4

if relabel(u) first

push-relabel Demo2 Step 3

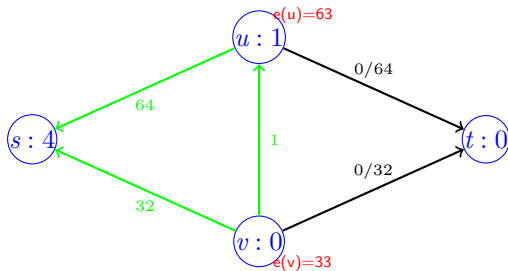


if relabel(u) first

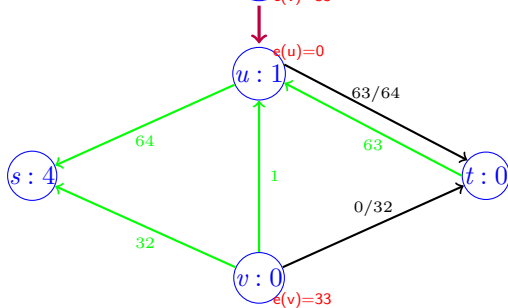


then if we chose to push(u, v)

push-relabel Demo2 Step 4

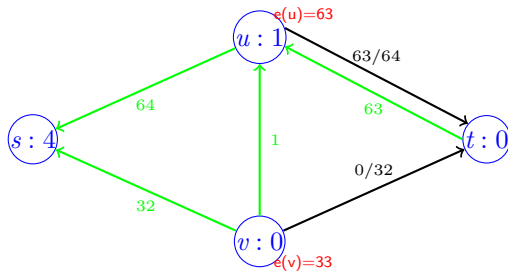


then if we chose to push(u, v)

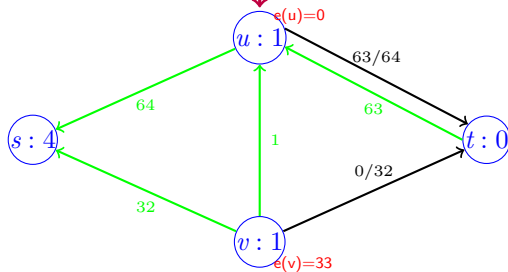


push(u, t)

push-relabel Demo2 Step 5

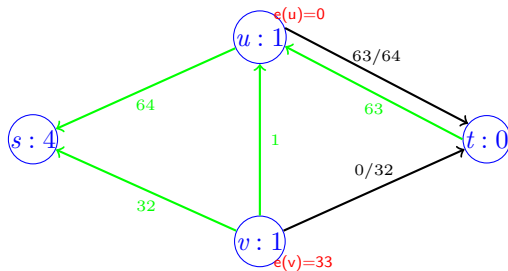


$push(u, t)$

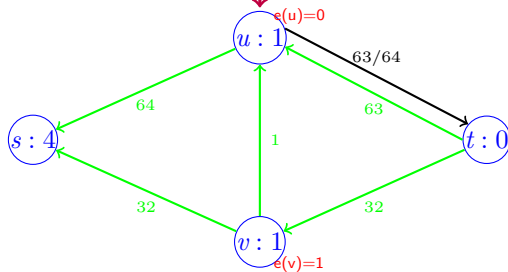


$relabel(v)$

push-relabel Demo2 Step 6

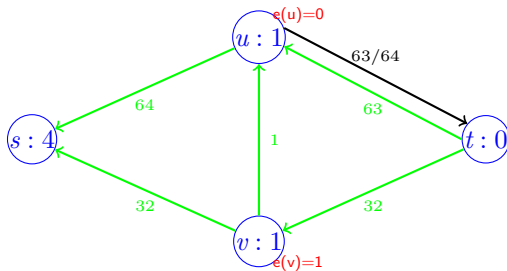


$relabel(v)$

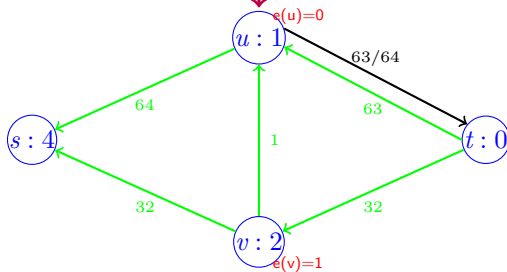


$push(v, t)$

push-relabel Demo2 Step 7

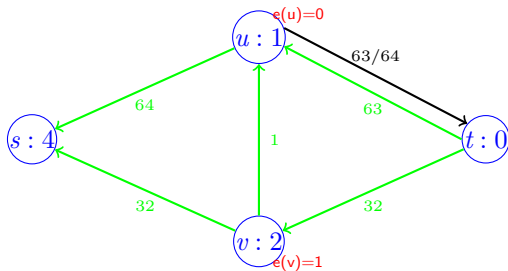


$push(v, t)$

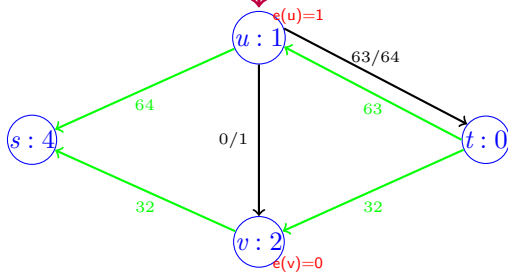


$relabel(v)$

push-relabel Demo2 Step 8



$relabel(v)$



$push(v, u)$

push-relabel Demo2 Step 9

