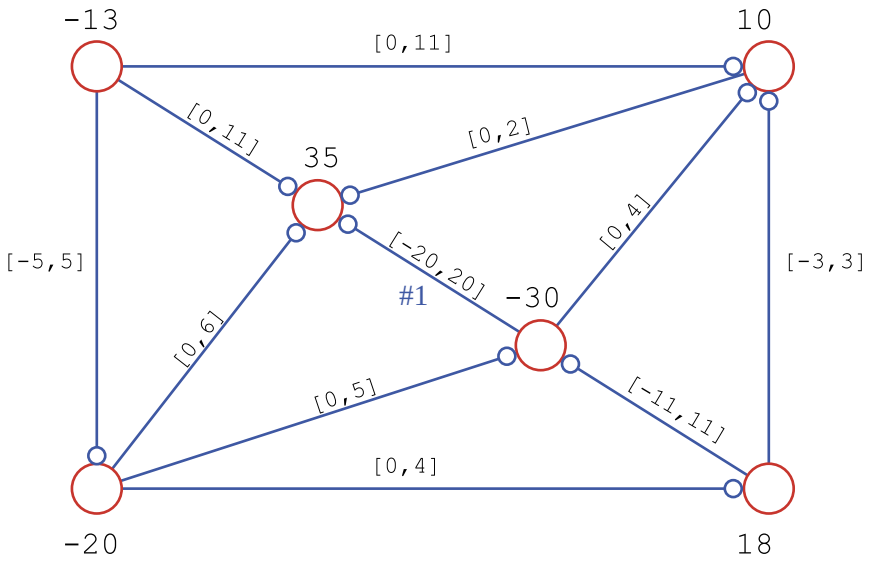
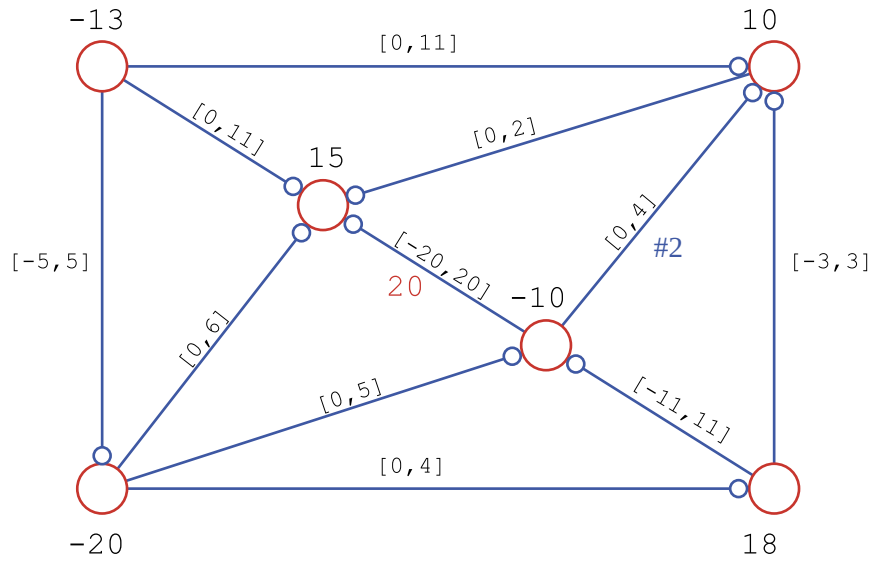
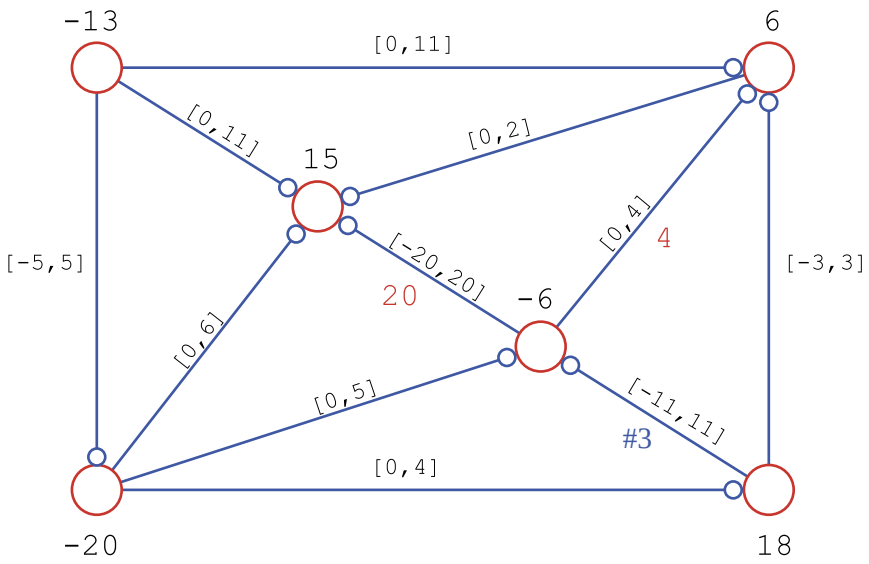
Feasible distribution algorithm

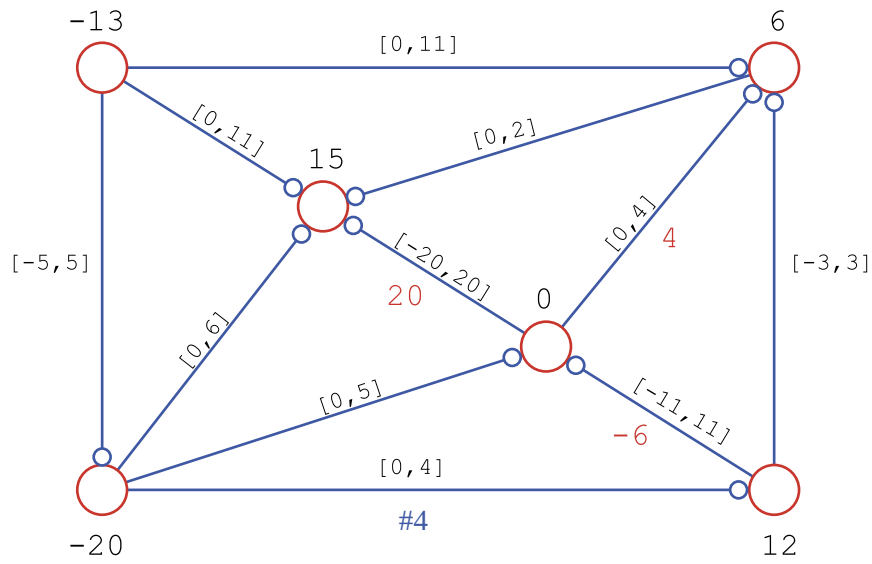
At each step, we write at each node the quantity y_i+b_i. We start out with all flows equal to zero (since this is clearly feasible wrt arc capacities). Thus, at first, $y_i+b_i=b_i$ for all nodes i

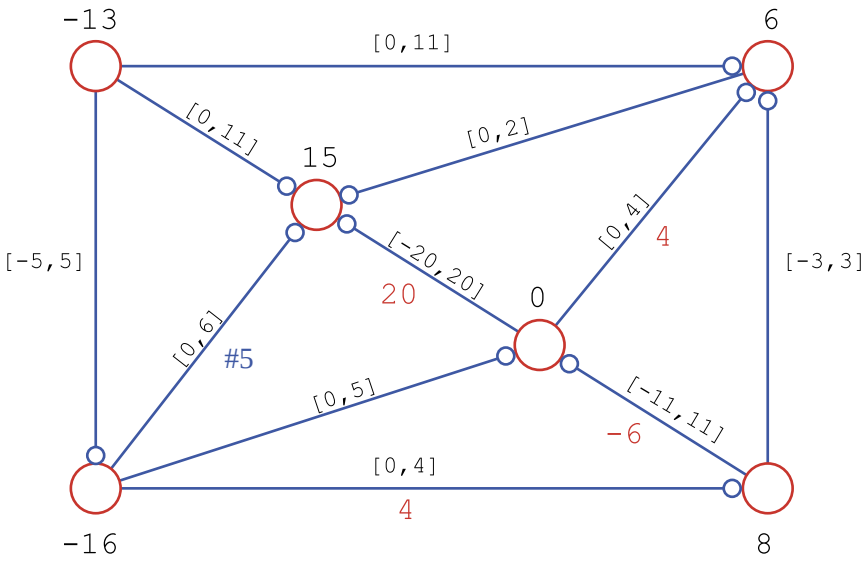


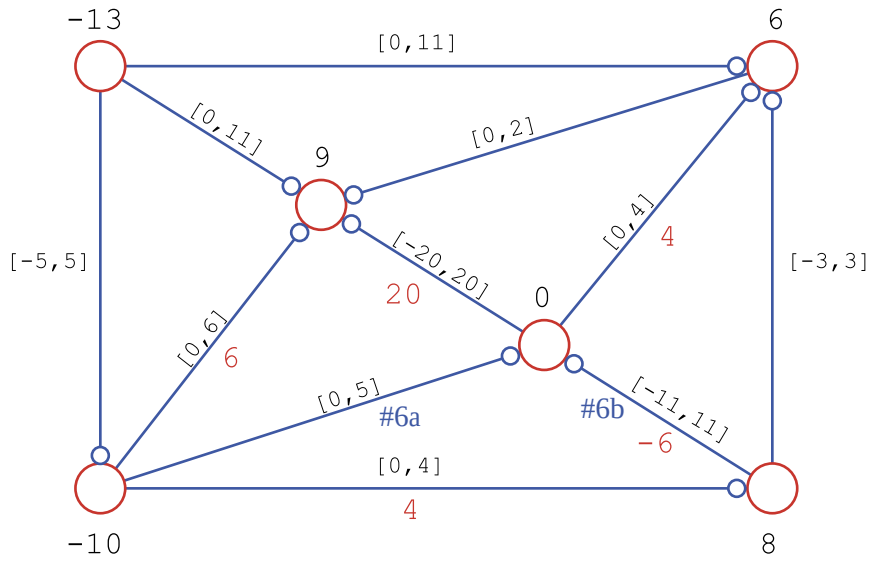


We will label the arcs of our augmenting paths as #na,#nb,#nc,... where n is the number of the path. Thus if the third path has three arcs, we would write #3a,#3b,#3c on its arcs. If a path has only one arc, we will omit the letter "a"..






-13
6
[0,11]
[0,11]
[0,2]
15
[-5,5]
[-20,20]
[0,4]
4
[-3,3]
20
0
[0,6]
#5
[0,5]
[-11,11]
-6
[0,4]
4
-16
8


-13
6
[0,11]
[0,11]
[0,2]
9
[-5,5]
[-20,20]
[0,4]
4
[-3,3]
20
0
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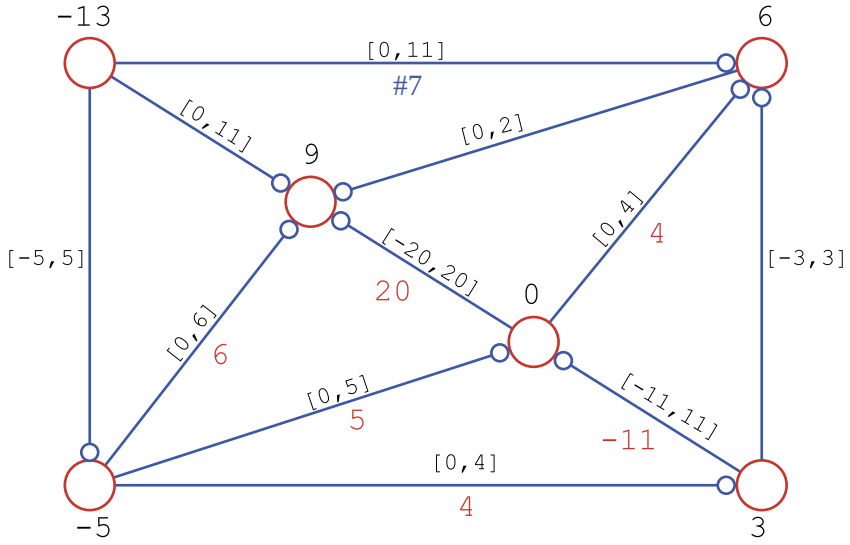
6
[0,5]
#6a
#6b
[-11,11]
-6
[0,4]
4
-10
8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#7
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4
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20
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6
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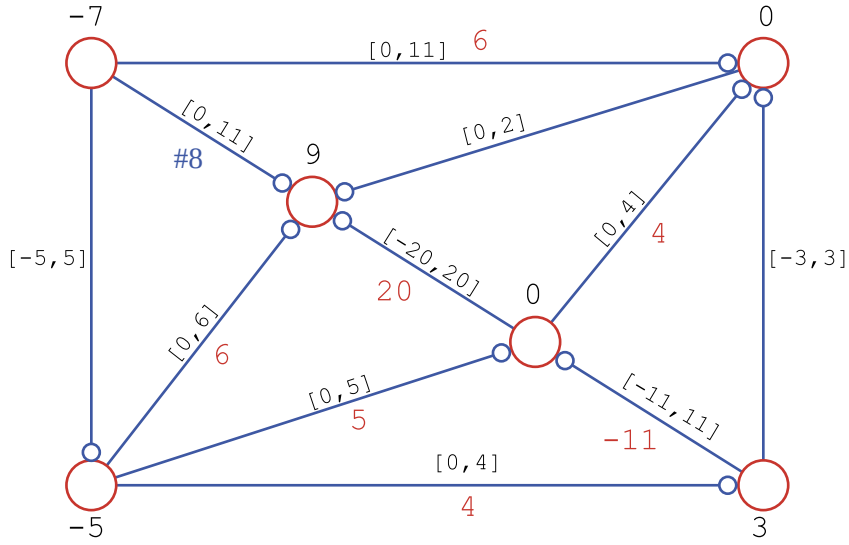
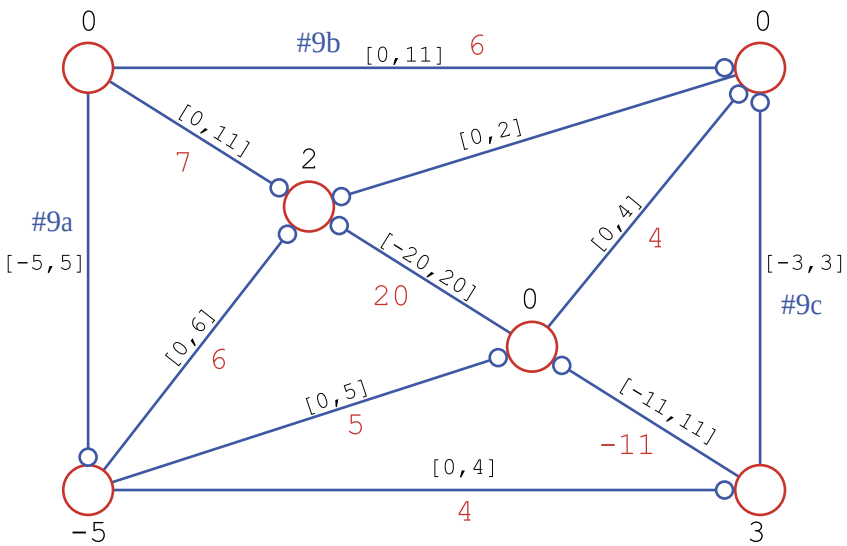
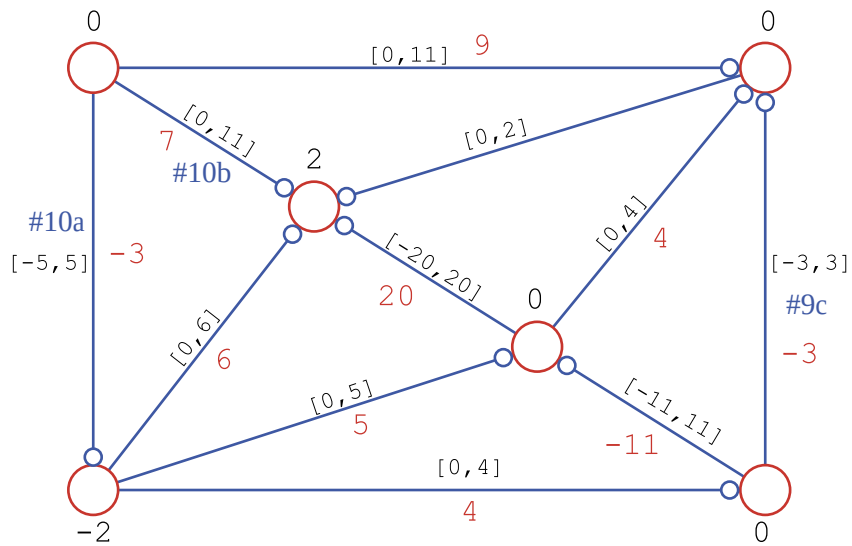
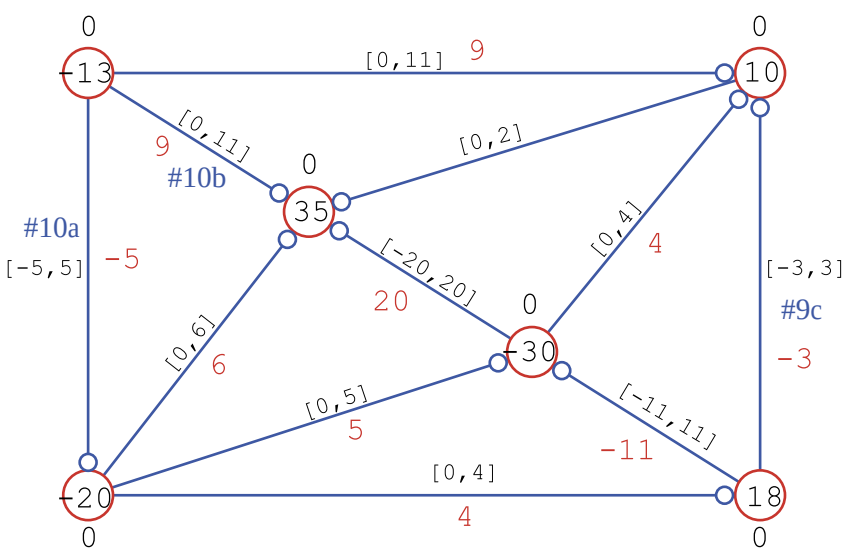
5
[-11,11]
-11
[0,4]
4
-5
3


-7
0
[0,11]
6
[0,11]
#8
[0,2]
9
[-5,5]
[-20,20]
[0,4]
4
[-3,3]
20
0
[0,6]
6
[0,5]
5
[-11,11]
-11
[0,4]
4
-5
3







We now have a feasible distribution. The original demands are entered inside the nodes.