

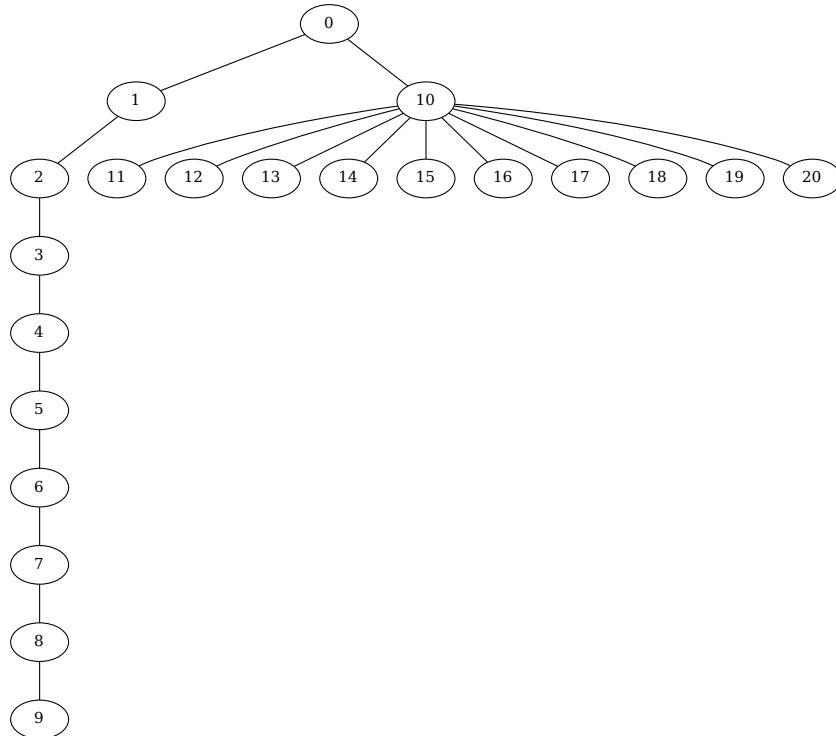
Report of running the connected cut algorithm

This is an automatically generated report which runs the algorithm on given graphs. There is a graph, its integer linear program solution, linear program solution, enhancement of the linear program and approximation result.

Graph	ILP	LP	Enhancement	Aproximation
comet	2	1.6363636363636362e+00	2	10
comet2	4	4	4	4
clique	30	9.9999999999999982e+00	9.9999999999999982e+00	30
star	34	34	34	34
path	4	4	4	4
tree	12	10.5	12	12

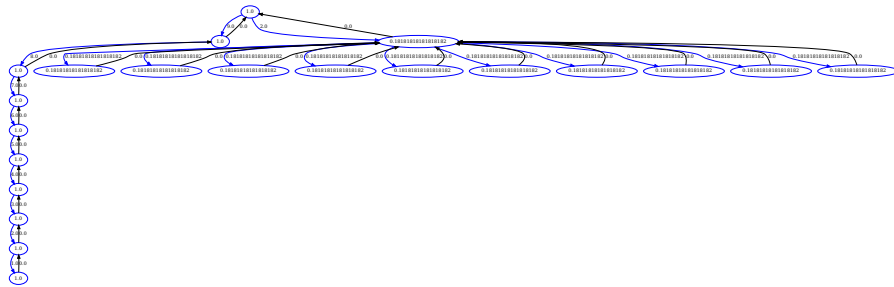
comet

The source vertex is $s = 0$ and capacity is $k = 12$.

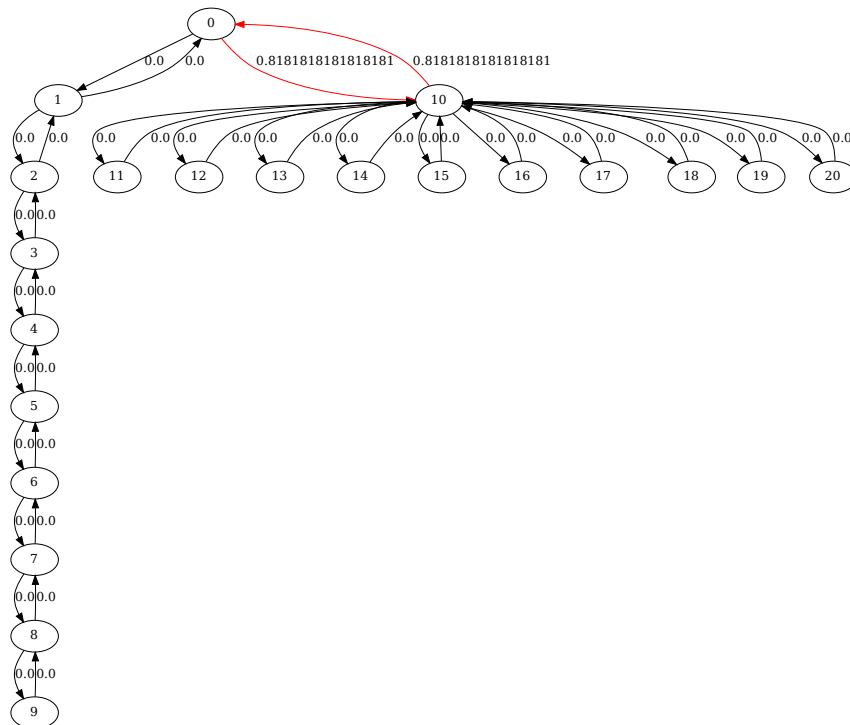


Linear program

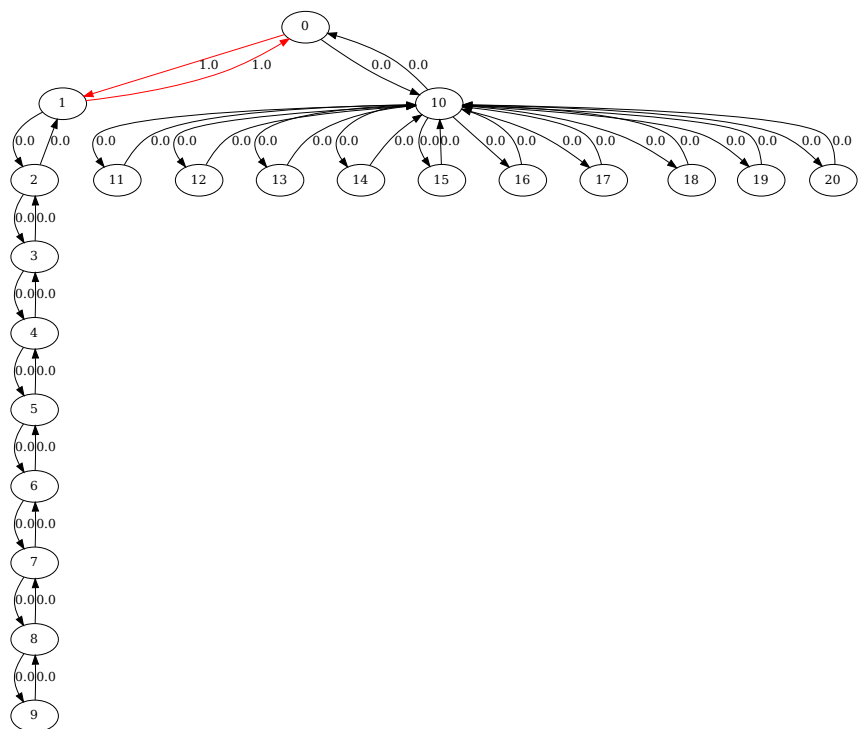
Flow



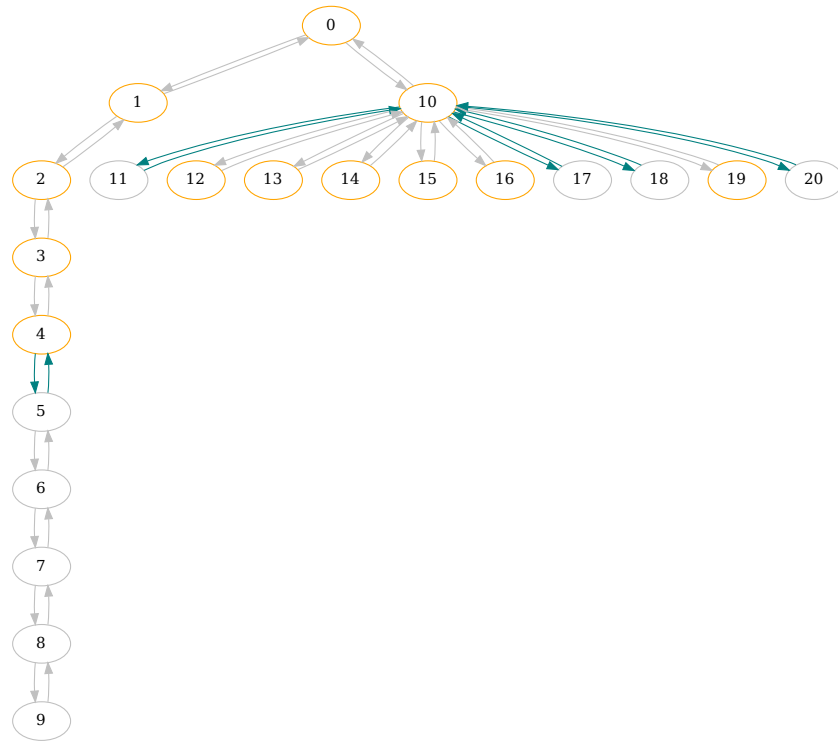
Cut



Cut

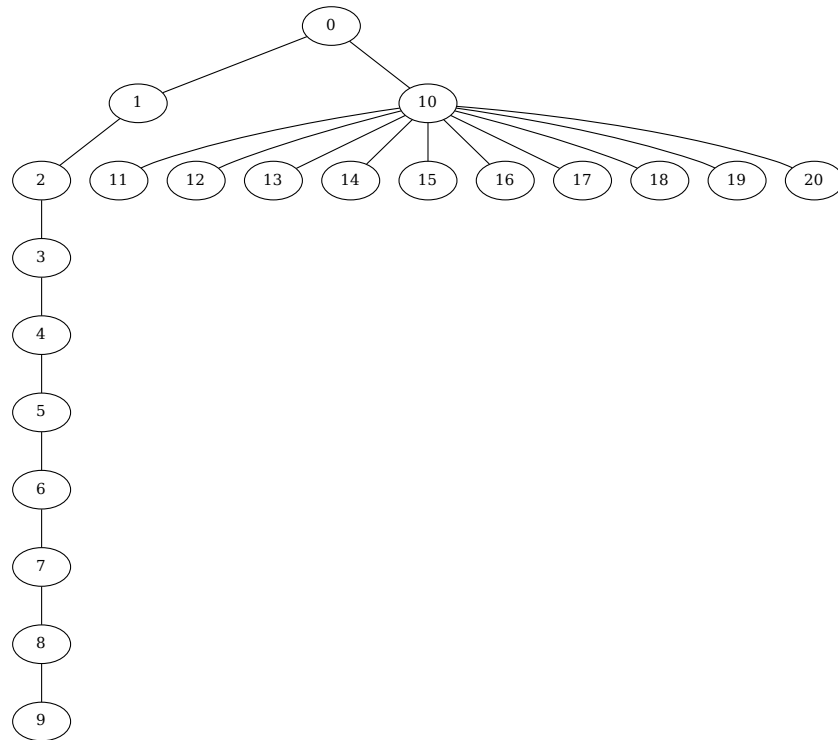


Aproximation



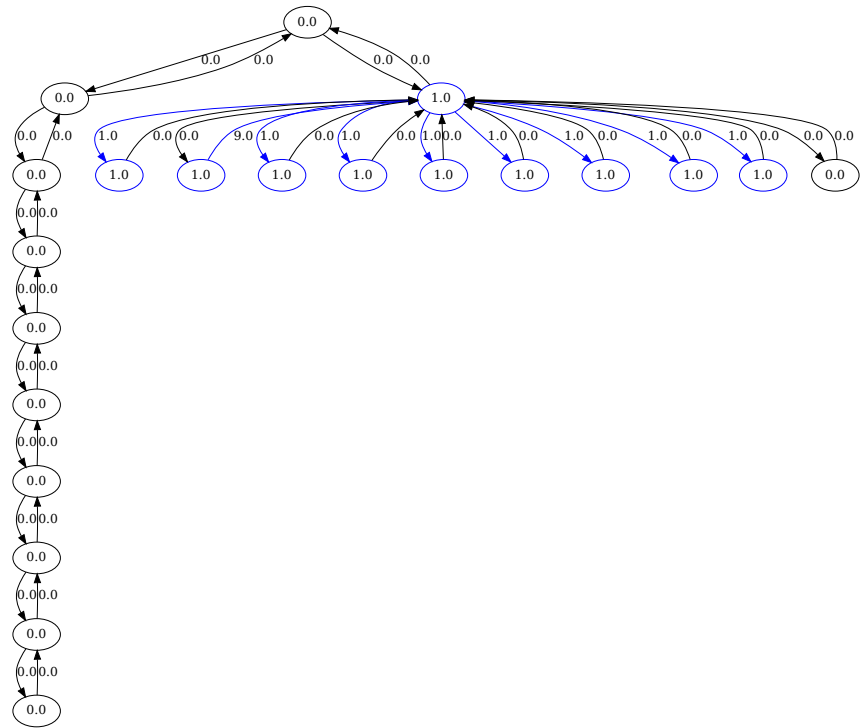
comet2

The source vertex is $s = 12$ and capacity is $k = 10$.

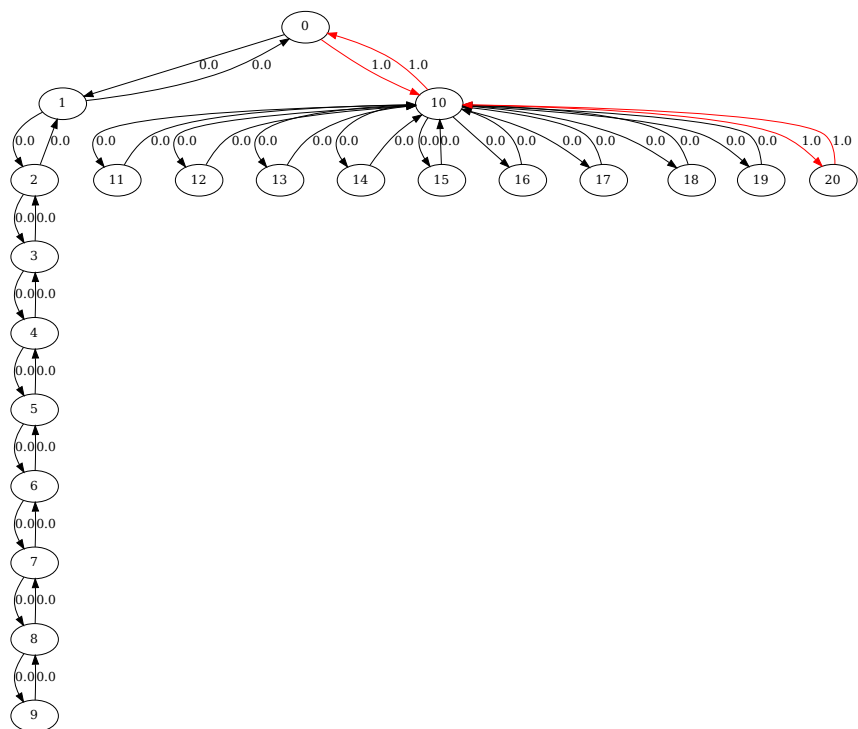


Linear program

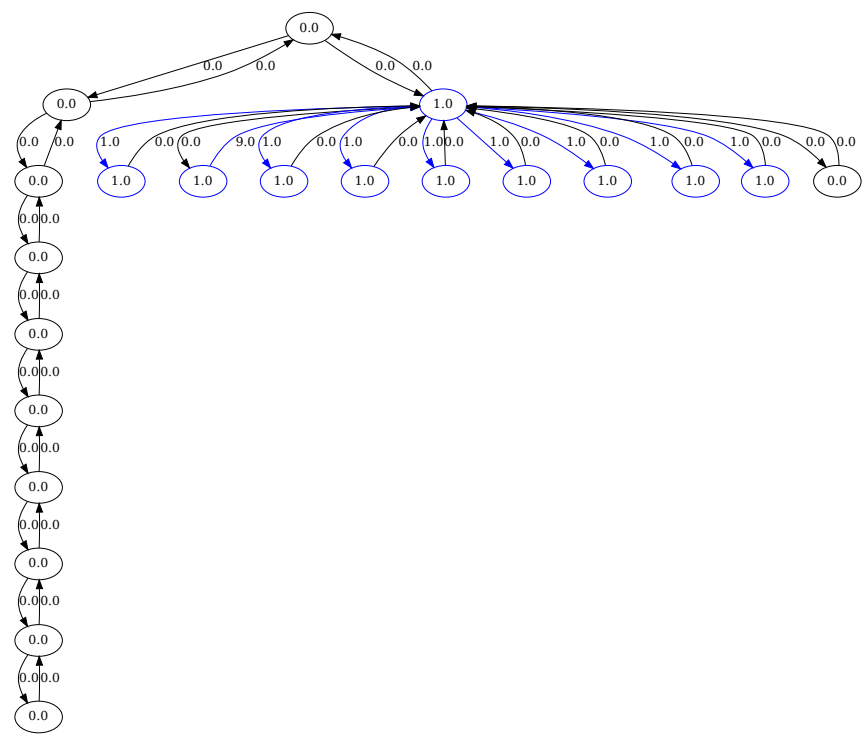
Flow



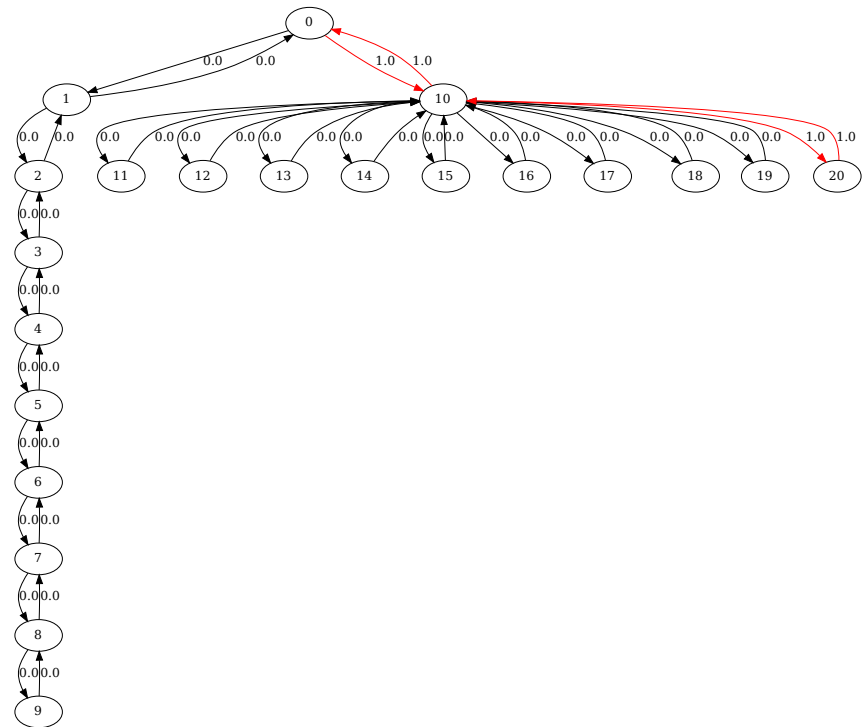
Cut



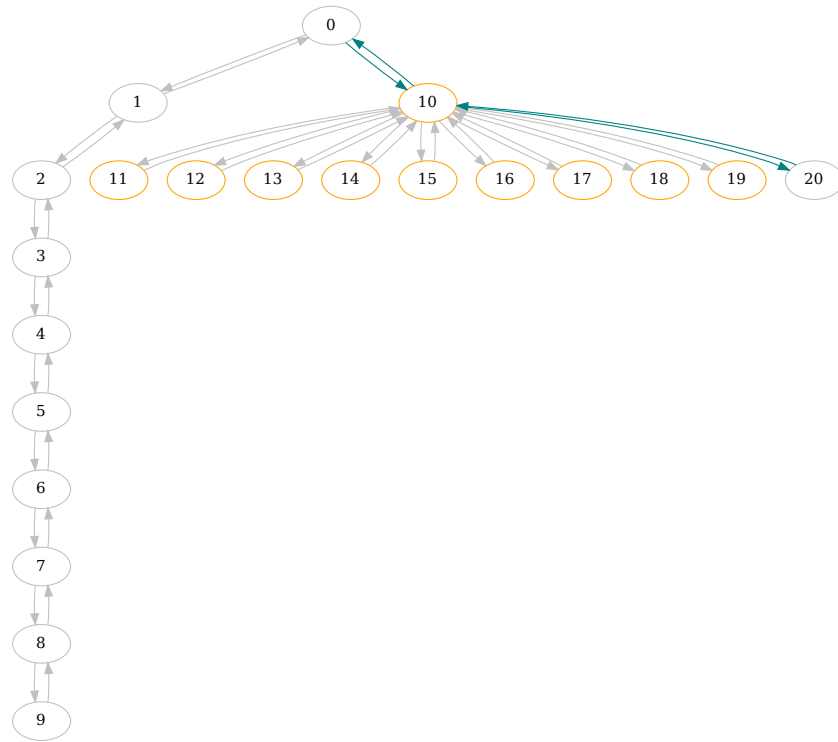
Flow



Cut

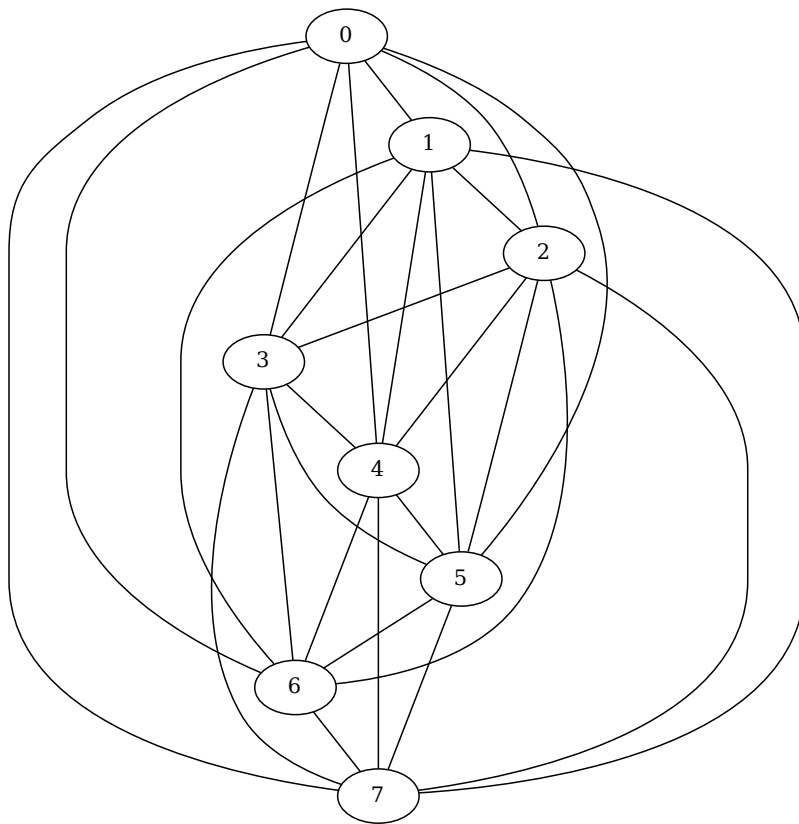


Aproximation



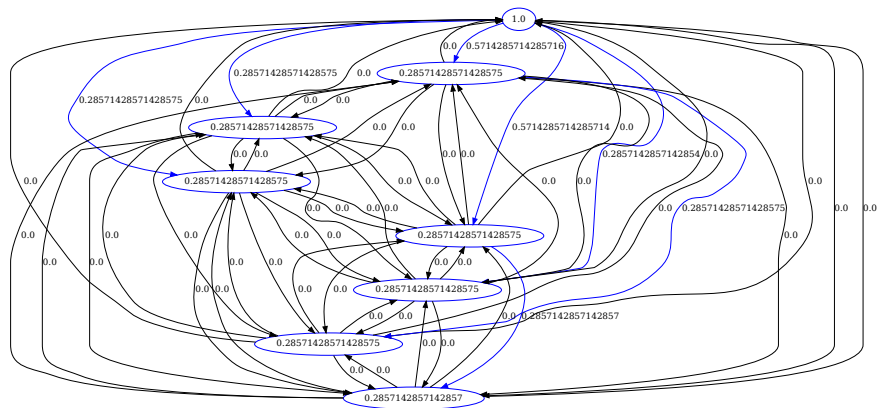
clique

The source vertex is $s = 0$ and capacity is $k = 3$.

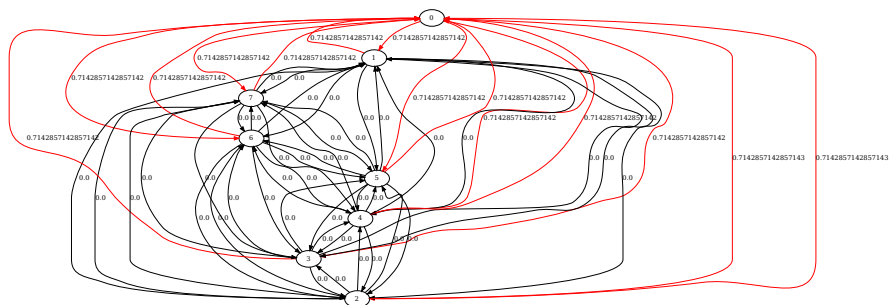


Linear program

Flow

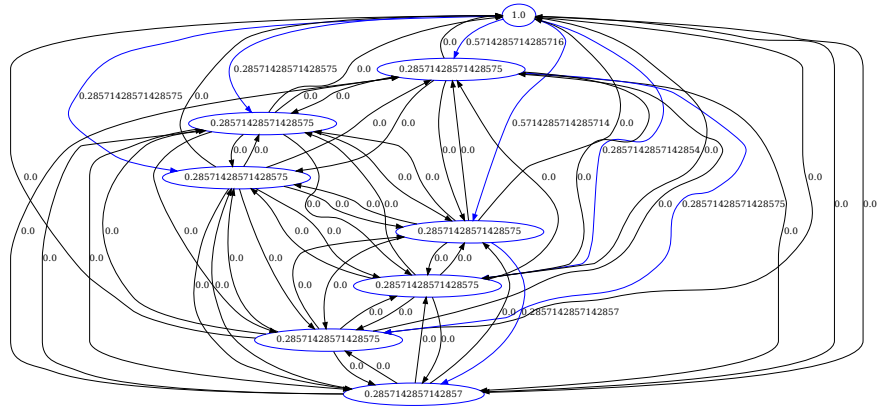


Cut

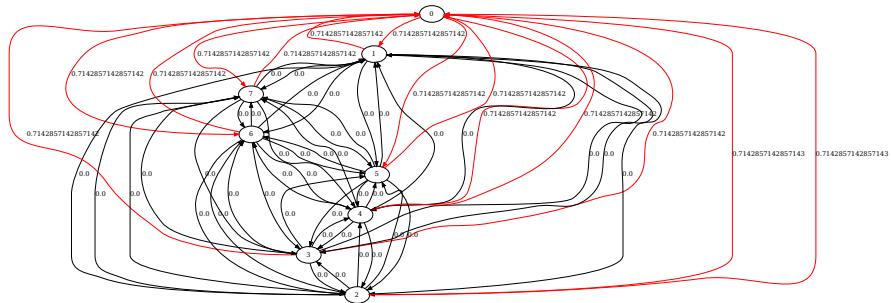


Enhancement

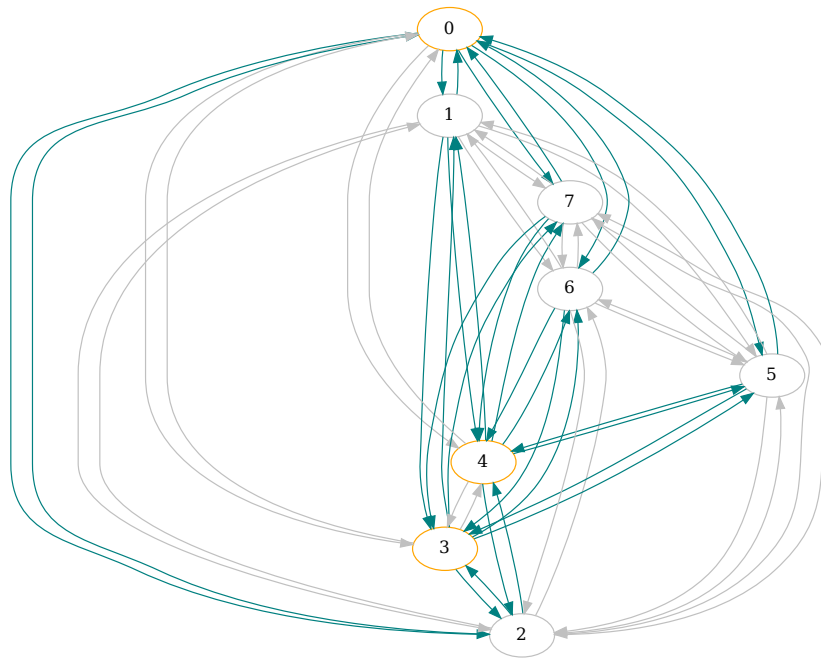
Flow



Cut

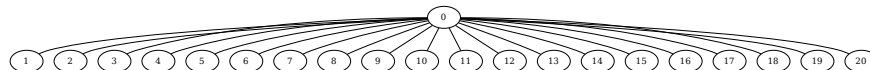


Aproximation



star

The source vertex is $s = 1$ and capacity is $k = 4$.



Linear program

Flow



Cut



Enhancement

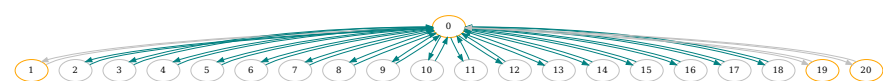
Flow



Cut

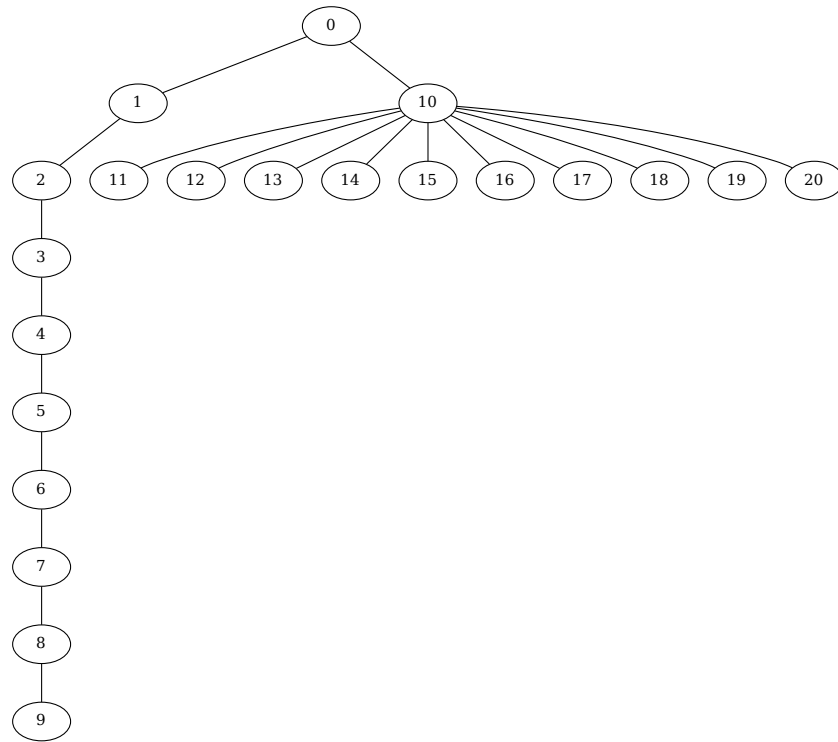


Aproximation

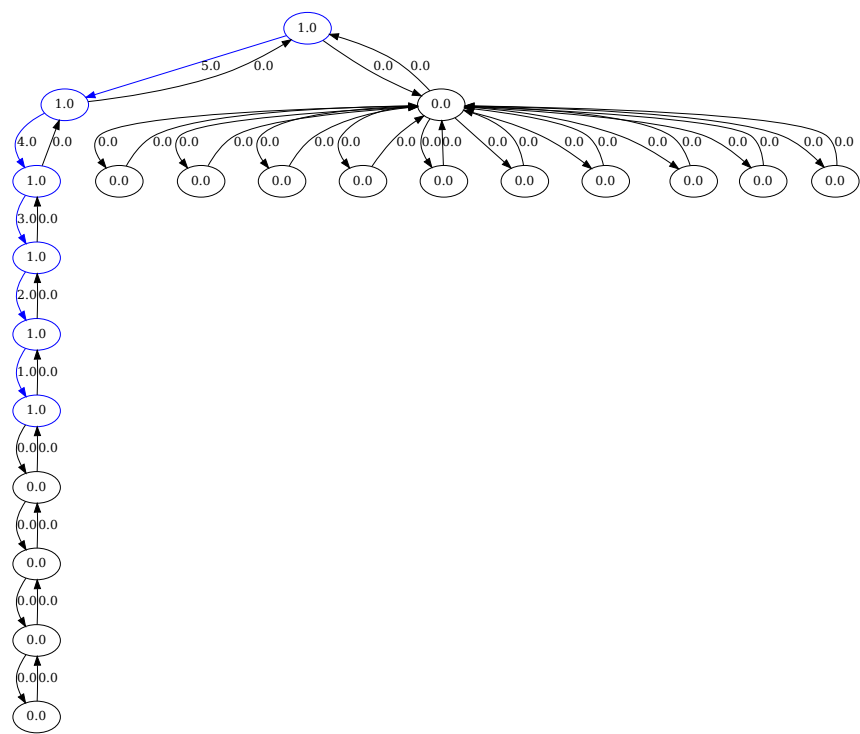


path

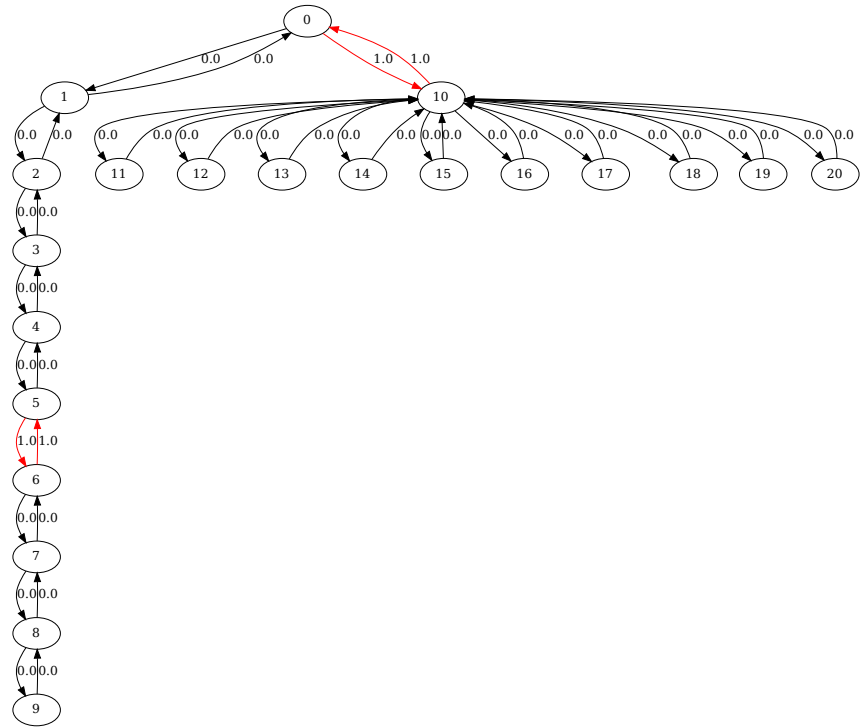
The source vertex is $s = 0$ and capacity is $k = 6$.



Flow

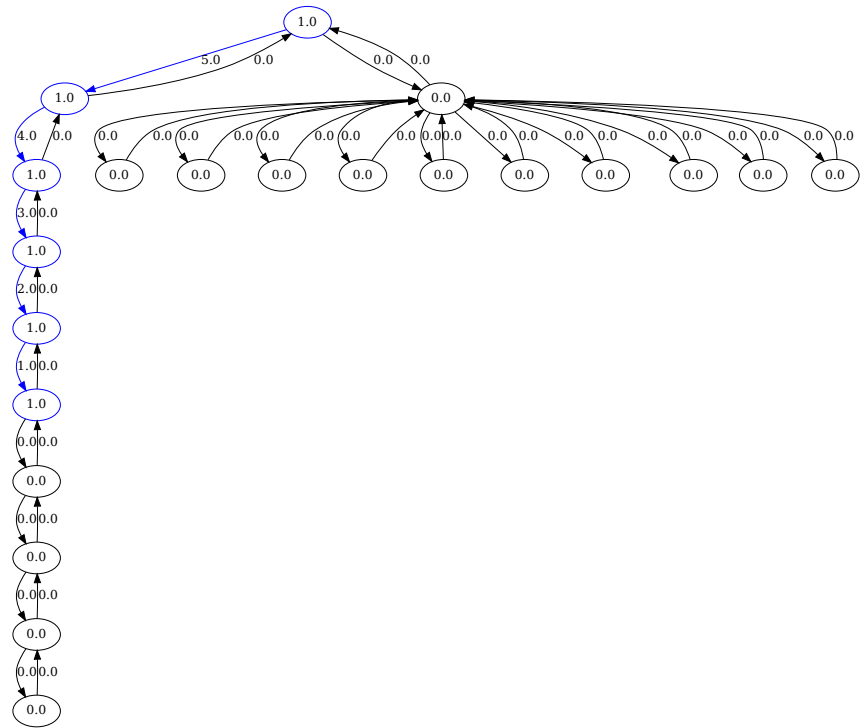


Cut

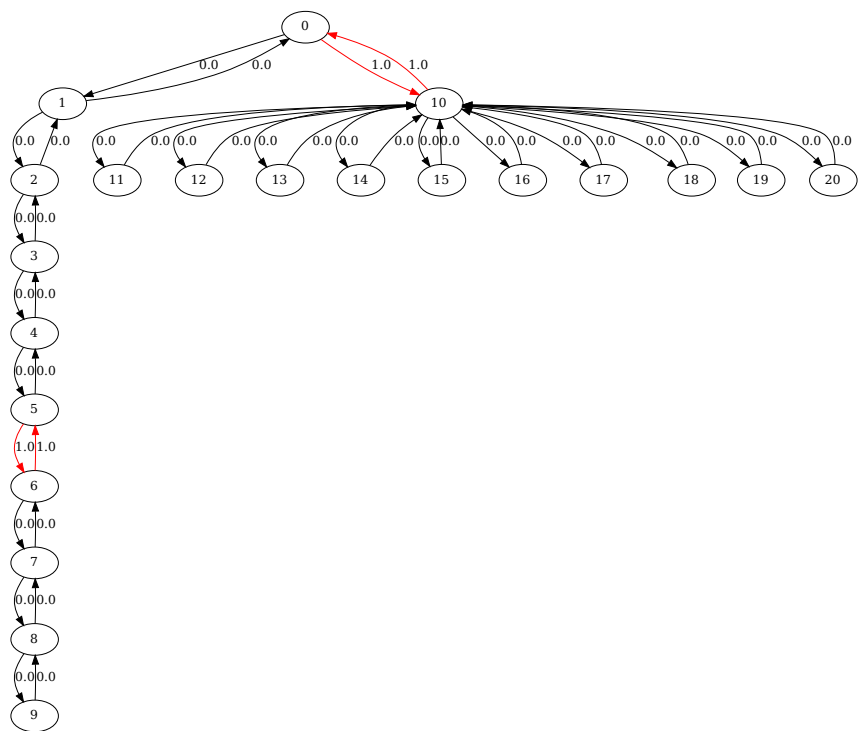


Enhancement

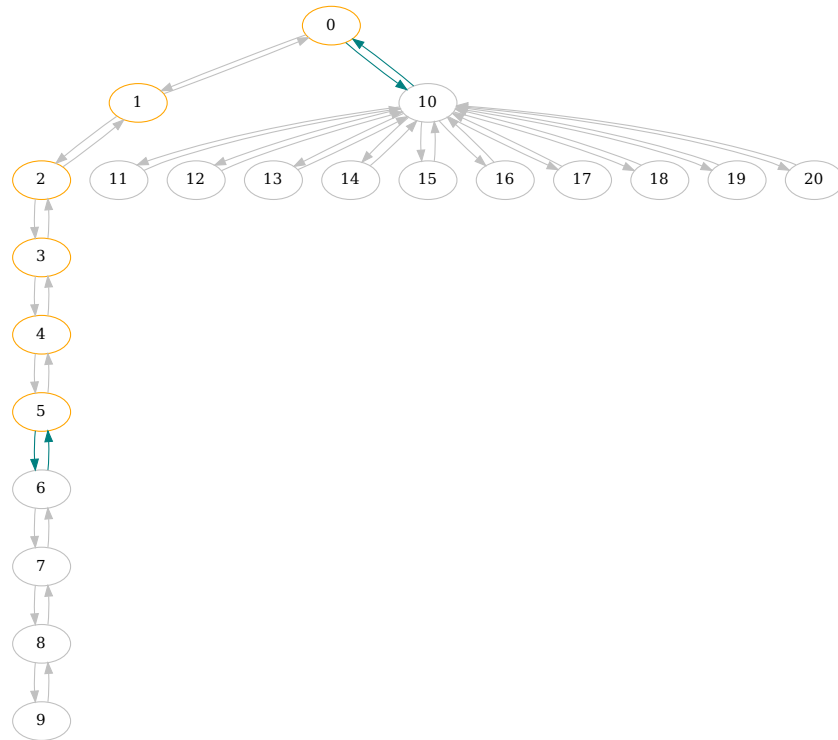
Flow



Cut

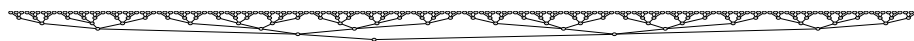


Aproximation



tree

The source vertex is $s = 0$ and capacity is $k = 15$.



Linear program

Flow



Cut



Enhancement

Flow



Cut



Aproximation

