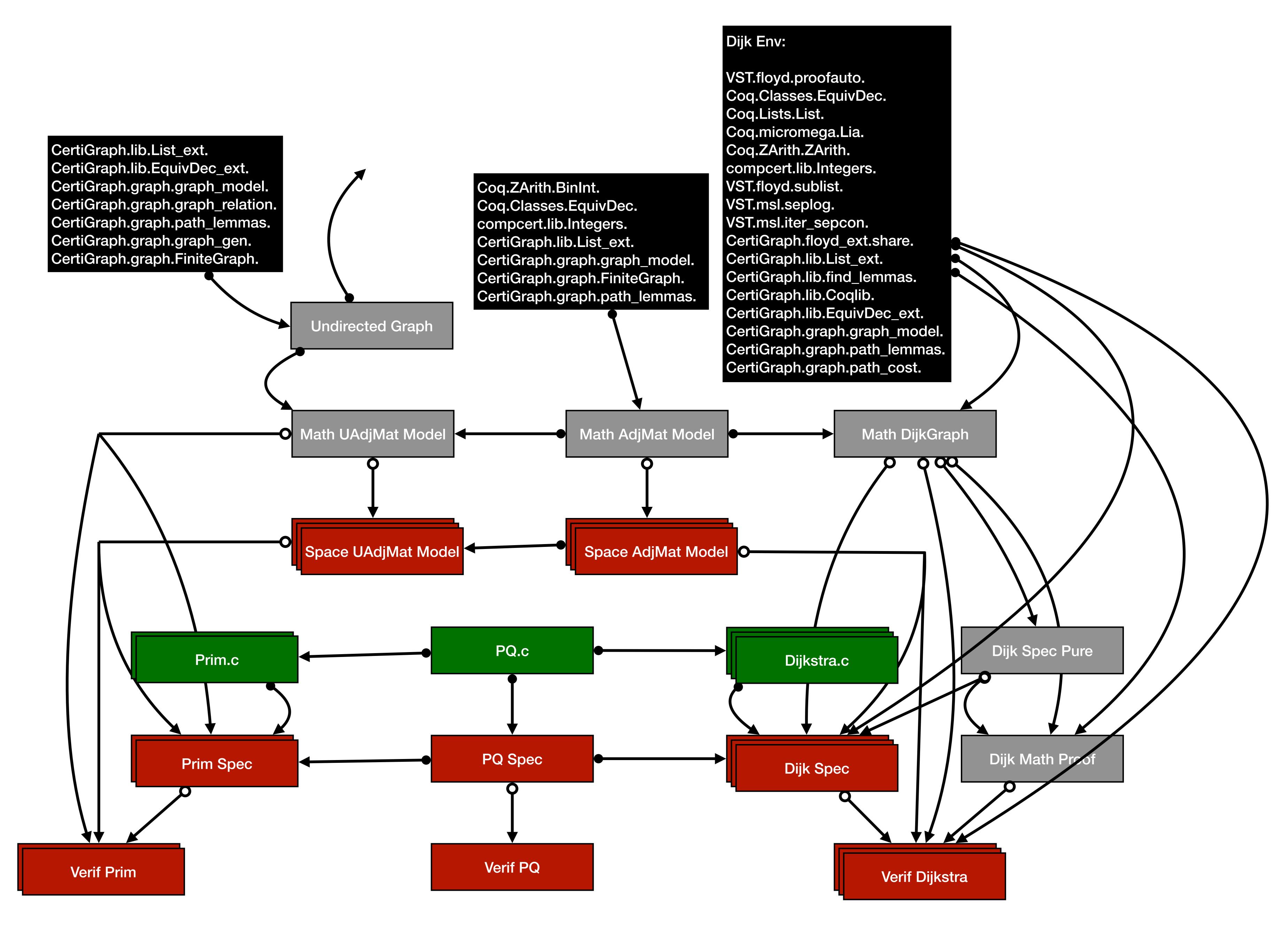
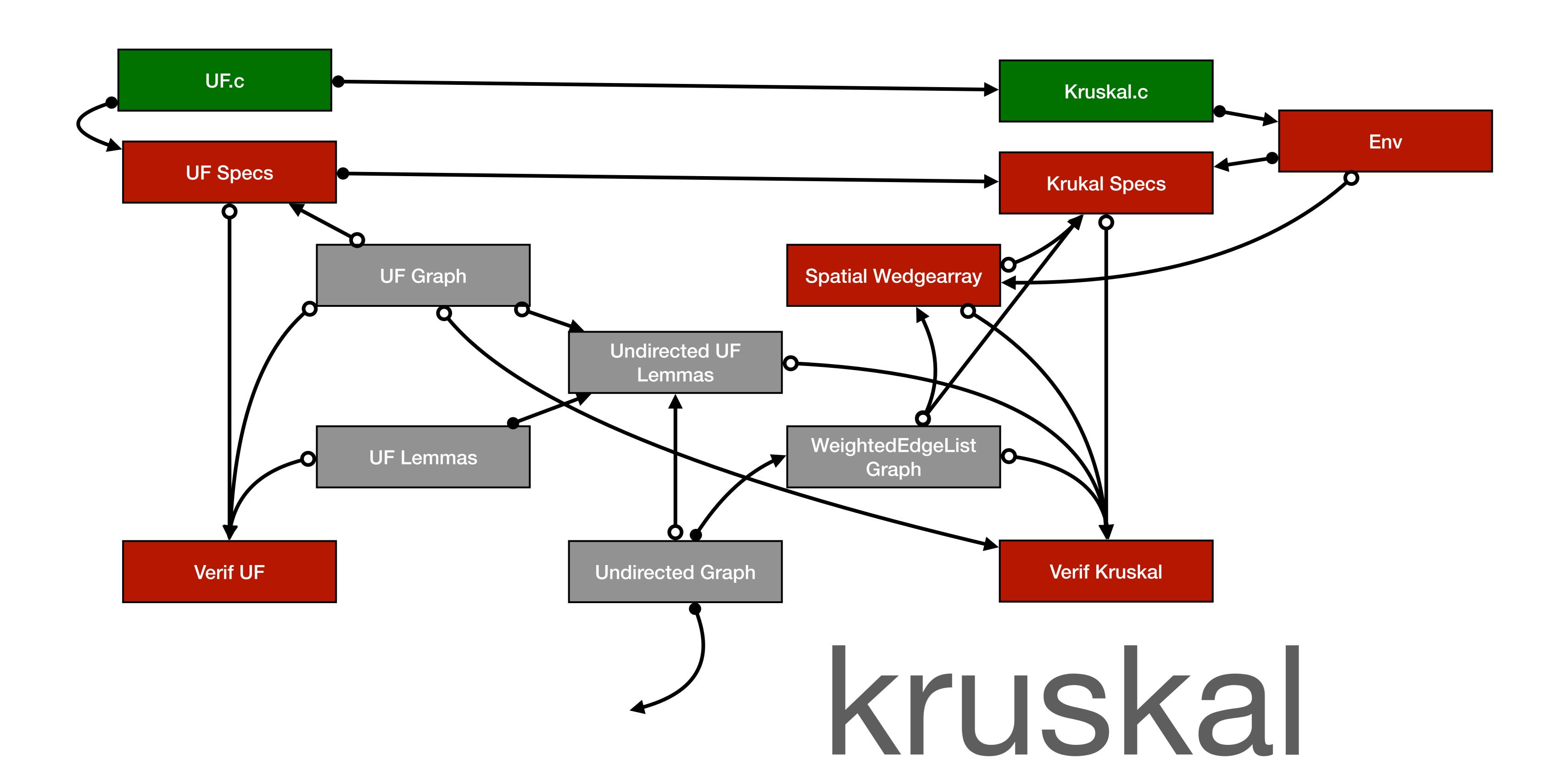
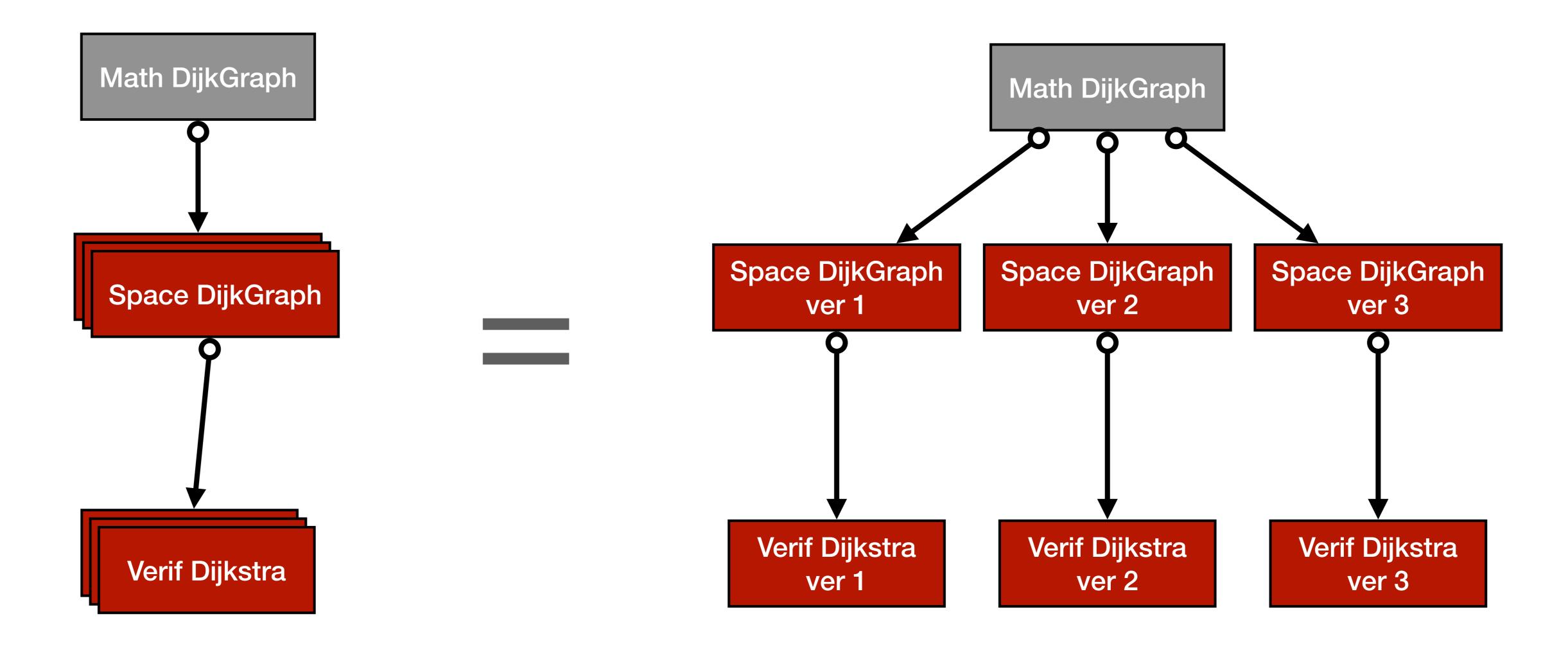


## prim and dijk

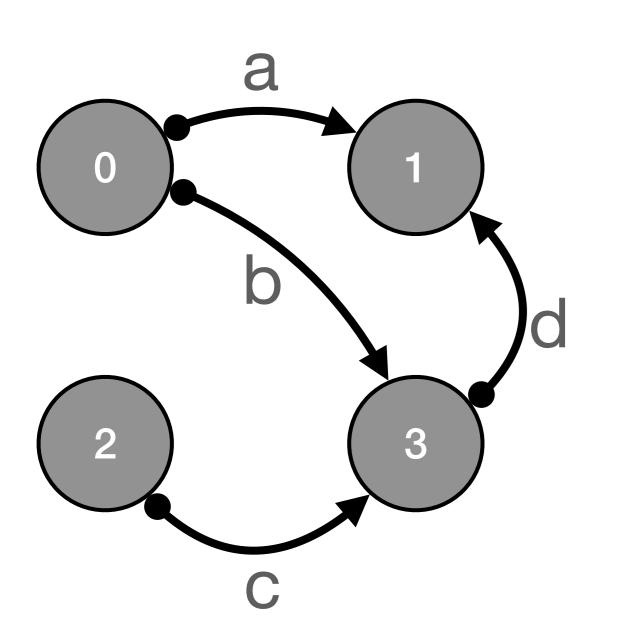


## showing key imports





V:Z E:VxV LE:Z LV, LG: null



	0	1	2	3
0	0	a	inf	b
1	inf	0	inf	inf
2	inf	inf	0	С
3	inf	d	inf	0

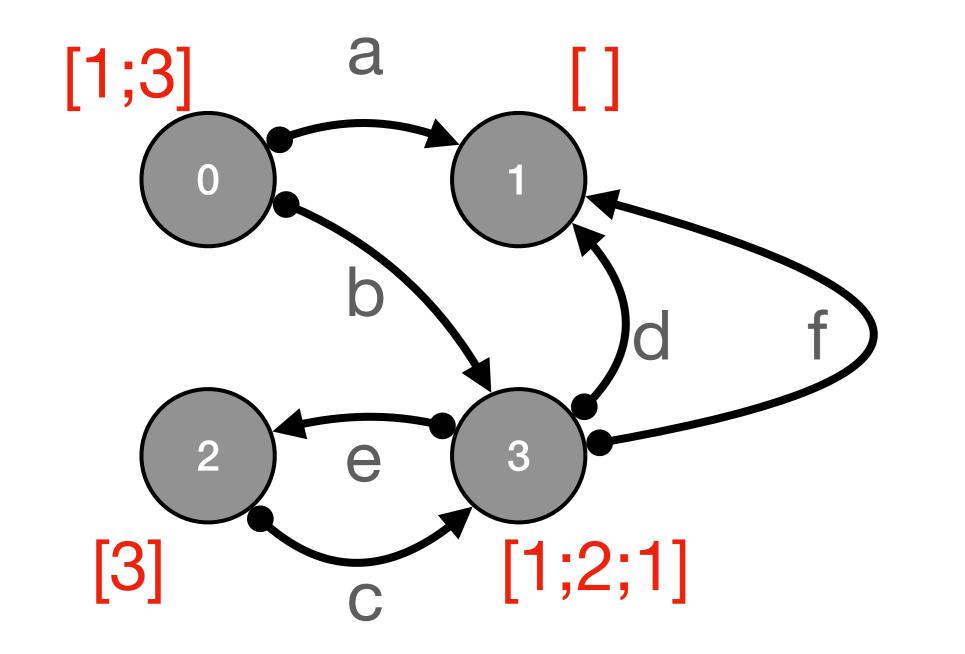
g2m g	g2m g	g2m g
:=	-	:=
v2l 0;	map elabel [(0,0); (0,1); (0,2); (0,3)];	[ 0; a; inf; b];
v2l 1;	map elabel [(1,0); (1,1); (1,2); (1,3)];	[inf; 0; inf; inf];
v2l 2;	map elabel [(2,0); (2,1); (2,2); (2,3)];	[inf; inf; 0; c];
v2l 3	map elabel [(3,0); (3,1); (3,2); (3,3)]	[inf; d; inf; 0]
]		

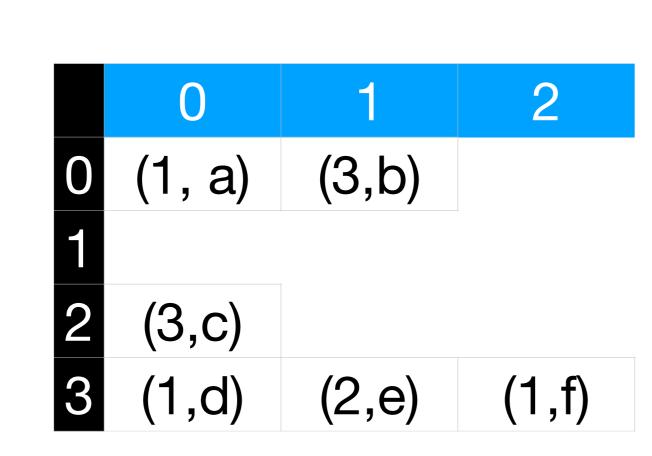
I ask for a precon: all lists in (g2m g) have length = size Quietly, this is a fully-connected graph.

The edges with cost = inf are invalid due to the soundness condition placed on all AdjMats

Edjes to self are free, also due to a soundness condition placed on all AdjMats

Lemma elabel\_g2m:
forall i j,
0 <= i, j < size ->
elabel g (i, j) = (g2m g)[i][j]





V:Z E:VxVxZ

LE: Z

LV: list V check if Shengyi's Fin functions let us get away w/o

LG: null

Lemma elabel\_g2m:
forall i j id,  $0 \le i \le i \le ->$ (vlabel i)[id] = j ->
elabel g (i, j, id) = (g2m g)[i][id]