

Baseball Elimination

A baseball team is eliminated if ~~it~~ a set of wins that could lead it to have $\leq$ # wins of any other team.

Team	Wins	Losses	Left	Against			
				Atl	Phil	To	NY
1. Atlanta	83	71	8		1	6	1
2. Philadelphia	80	79	3	1		0	2
3. Toronto	78	78	6	6	0		0
4. New York	77	82	3	1	2	0	

New York is eliminated - why?

Philadelphia is also eliminated... harder to see.

Atlanta has 83 wins, 71 losses, 8 games left.
 Philadelphia has 80 wins, 79 losses, 3 games left.
 Toronto has 78 wins, 78 losses, 6 games left.
 New York has 77 wins, 82 losses, 3 games left.

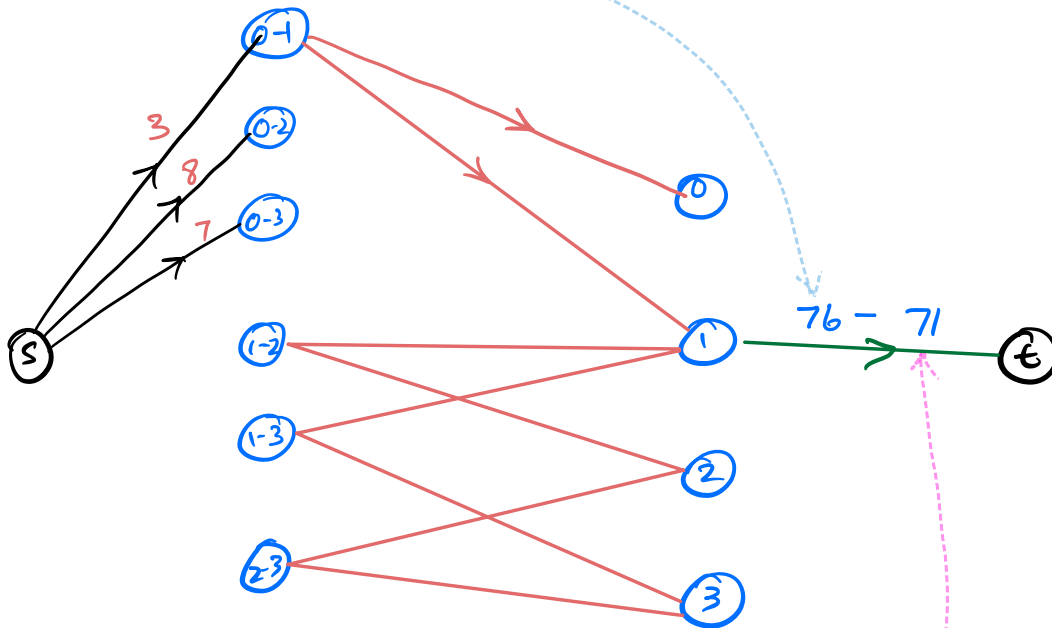
1996- Sports writers got it wrong.

We can solve it with Max Flow

Team	Wins	Losses	Left	Against				
				0	1	2	3	4
0	75	59	28		3	8	7	3
1	71	63	28	3		2	7	4
2	69	66	27	8	2		0	0
3	63	72	27	7	7	0		0
4	49	86	27	3	4	0	0	

Is team 4 eliminated?

$$w[4] + r[4] = 76$$



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				0	1	2	3	4
0	75	59	28		3	8	7	3
1	71	63	28	3		2	7	4
2	69	66	27	8	2		0	0
3	63	72	27	7	7	0		0
4	49	86	27	3	4	0	0	

see [www.cs.princeton.edu/courses/archive/spr03/assignments/
baseball.html](http://www.cs.princeton.edu/courses/archive/spr03/assignments/baseball.html).