

Problem: Three candidates.

$$S_i = \{1, 2, 3, 4, 5, 6, 7, 8, 9, 10\}$$

Step 1

Is 1 dominated 2?

1		2		Y/N
(1,1,1)	1/3	(2,1,1)	9/10	Y
(1,2,1)	1/20	(2,2,1)	9/20	Y
(1,2,2)	1/10	(2,2,2)	1/3	Y
(1,3,1)	1/20 + 1/30	(2,3,1)	1/10	Y
(1,3,2)	1/10	(2,3,2)	1/20 + 1/20	Y
(1,3,3)	1/10 + 1/30	(2,3,3)	1/10 + 1/10	Y
.....				

So 1 is dominated 2. So 1 is strictly dominated, and 10 is also strictly dominated.

Step 2

Iterative deletion of dominated strategies.

$$S_i = \{1, 2, 3, 4, 5, 6, 7, 8, 9, 10\}$$

Is 2 dominated 3?

2		3		Y/N
(2,2,2)	1/3	(3,2,2)	8/10	Y
(2,3,2)	1/10	(3,3,2)	4/10	Y
(2,3,3)	2/10	(3,3,3)	1/3	Y
(2,4,2)	1/10 + 1/30	(3,4,2)	1/10	N
(2,4,3)	2/20	(3,4,3)	3/20	Y
(2,4,4)	2/10 + 1/30	(3,4,4)	3/10	Y
...				

2 is not strictly dominated 3.

