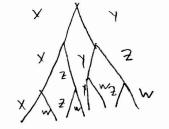
Eli Zelle Homenroit 3

P1: Y7,77,W
P2: X72Y72W722
P3: W73273X73Y

CW 5 (KX) = A

Assuming all People vote Sincerely,

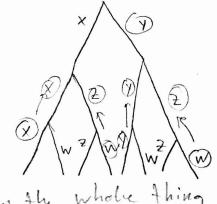


X beats 1, then 2 beats X, then W beats 2 50 W wins

(b) It people vote Sophisticatedly,

W>Z, Y7Z, Z>x, x>w, x>Y>W

In this case, X would be the Sophisticated winner because X beats wand Y but not 12. So if



X could beat Z in round 2 X would win the whole thing

(A'=(xyww)

() In the Second round vote between X and Z, if Player I votes for X out Z, then X would win Homens, Pl would do better than if they voted Sincerbey because X>, W.

2) PI; Y7, 27, X7,W

> P2: X>2 Y >2 W>2 2

P3; W>3773773Y

ELM YZEVALX YZA YZX MZELK PMY

- 9) the tournament described above is T= { (x, y), (y, z), (y, w), (x, w), (z, x), (w, z) }

- 6) The copland Winners Carl be Computed as follows:

|T+(x)=2, |T+(y)|=2, |T+(2)|=1, |T+(w)|=1

- So the winners are X and y

- () X can beat y and w directly, y beats Z so X & top-cycle set Y can bent wand 2

Z can bent X direct

W can bent Z direct

Then TCS = {x,y,z} Y can bent wand 2 directly, 2 bents X 50 YETCS Z can heat X directly, X beats yandw so ZETCS Wear least 2 directly, 2 heats x so W&TCS

3) 9=.6, wi=.1, wz=.2, w3=.3, wy=.4 a) Pecisine coalitions of voters:

{(W, W2, W3, W4), (W, W2, W3), (W2, W3, W4), (W2, W4), (W3, W4), (W3, W4)} (W1, W8, W4)}

6) Compute the Banzhat indicies for these Voters

W, has I Point

W2 has 4 Points

W3 has 4 Points

Wy has 5 Points

So the Banzhat indicies are; Wi. 14, Wz: 14, W3: 14, W4: 14

() Now 9 = .65

Decisive (valitions are:

{ (W1, W2, W3, W4), (W2, W3, W4), (W3, W4), (W1, W2, W4), (W1, W3, W4)}

Wi has I point

Wz has I Point

Wa han 3 Points

wy has & Points

50 the indicies are: Wi 10, Wz: 10, W3: 10, Wain

1) Neither of these examples have dummy voters because

all voters are critical for at least 1 Coalition in both cases.