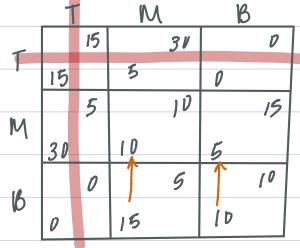
bames as single-penon deusion

- . No assumptions arous blankin
- cloesn't fam into account belief, motivation, etc

Matrix bamus:

	Itart		Ham		
Havt		10		7	
<u> </u>	10		2		
		2		5	
Han	7		5		
	-	(A	A	1	<u>.</u>

Nothing strictly dominans



· T strictly dominand by M

· When eliminand, B striuty
dominans M

Pandox of the Muddy children

10 Mildren, 3 moddy fairs (can strothers but not your fair)

is vnunoum

to the children

1/3

2/3

Romd: Itarn that there is at start I moday fact

evenyour knows - evenyour in civur sees a modaly
fact

Romd?: evenyour knows that evenyour knows there is >1

modaly fact

Round 3: every body sees at hast 2 proph nia modely face
lumpu mom vi pommon knowledge
Det. Player i is rational if they but respond to some built Bit & Di
distribution over opponents plays
Ri (subnit of strangers of planeri) = \$;
$R = \underset{i \in N}{X} R_i$
CVKB JITS
Cloud vhour vanional behavior (CUKB) sit Det. R is "reasonable" if F; F s; ERi: JB-i & D.R.;
· Si best responds to Bi
Si E argmax Vi (Si , B-i) Si'E Si
propurius:
· R is CURB, R' is CUKB -> X (RiVR';) is CURB
Ris rationalizable if Risa maximal CUKB set.
Maximal CURB set unique - mique rationalizable
Hare Matrix CURB 1-17
{ Hart {x Start}
P, P2 are reasonable
{Ham} x { Ham} 1
{ Hav, Han 3x { Havt, Han } - can vor different sets of

```
TMB Marrix CURB SET
```

Iterative Flimination of String Dominand Strangins (IESDS)

Initialize $S^{l-1}S^{l-1$

Thm. If b is Finit, IESDS outputs the vationalizable

Set R.

Why? I'E R be enoughing attend was strictly dominand, enoughing in who set must have been best response to some besite.

Suppose $S^{(k-1)} \ge R$. Detine $S^{(\infty)}$ to be $\tilde{\mathcal{I}}$ $S^{(k)}$. $S^{(\infty)} = R$.

Games of Strategic Comprements

Si = [0, 100]

0 12.5 25 50 100

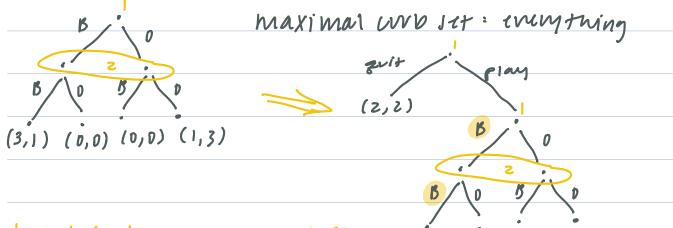
Round 1: 50 strictly dominates grastes of 50-100 Round 1: 25 strictly dominates 25-100.

Mil wnuprons:

- · rationalizability => nash equilibrium
- · rationalizability is weak alone
- impreng reason for other's action

Plane (1984): Defined rationalizability

Barrh of m sexus



* updan beliefs upon nitting (3,1) (0,0) (0,0) (1,3)

byrn

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(1.5,1) (-1.5,0) (-0.5,3/3,1) (0,0) (0,0) (1,3)

Delist mat player 2 will play 0