

Verify the Invariant By Invariant, Tom's feasible wives still on his list.

CC 0 0 Albert R. Meyer, 2015

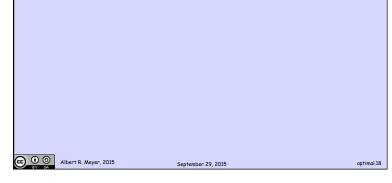
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Verify the Invariant By Invariant, Tom's feasible wives still on his list. Nicole is top of list, so ranks above all Tom's other feasibles.

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Verify the **Invariant** So Nicole cannot stably marry Bob, because



Verify the Invariant So Nicole cannot stably marry Bob, because she and Tom would be rogue: She prefers Tom to Bob, and Tom would prefer her to whoever his wife is. (C) (O) (Albert R. Meyer, 2015)



Verify the **Invariant** 

So rejected suitor Bob is indeed not feasible: Invariant is preserved!



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Girls lose the Ritual

Easier argument shows each girl gets worst possible spouse.



September 29, 2015

Boys win, Girls lose In Mating Ritual:

Every boy marries his optimal wife.

Every girl marries her pessimal husband.



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Stable Marriage

More questions, rich theory

- other stable marriages possible? -can be many
- •do better by lying? boys -No! girls -Yes!

