

# Quantum Uno-Jenga

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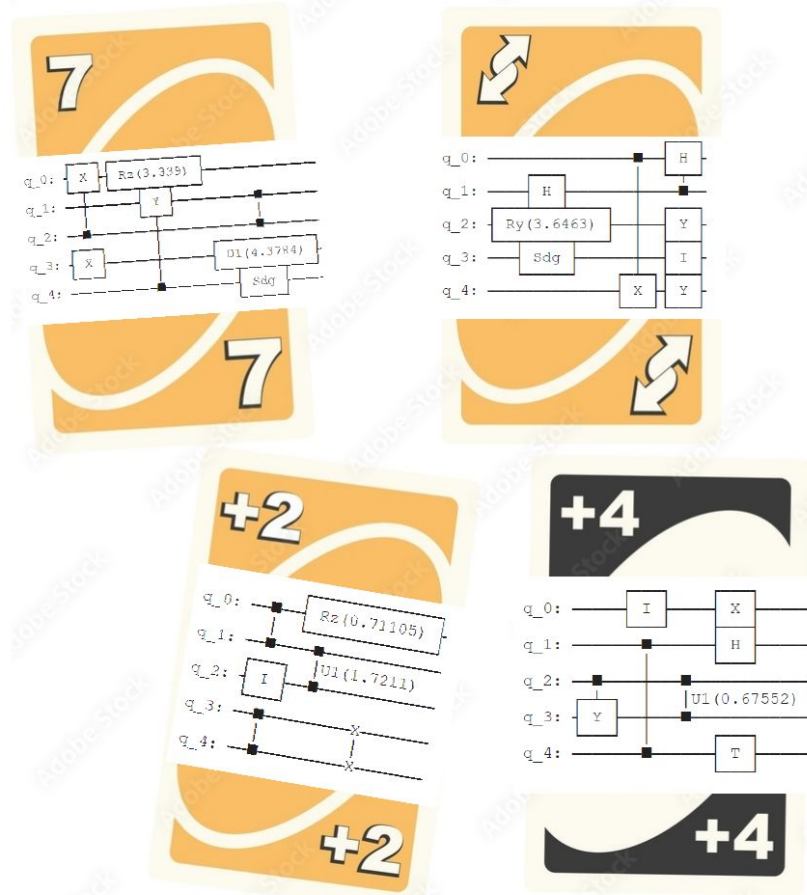
# Classical Uno

- Any card you put down must either be the same color or the same number with the card in the center.



# Quantum Uno

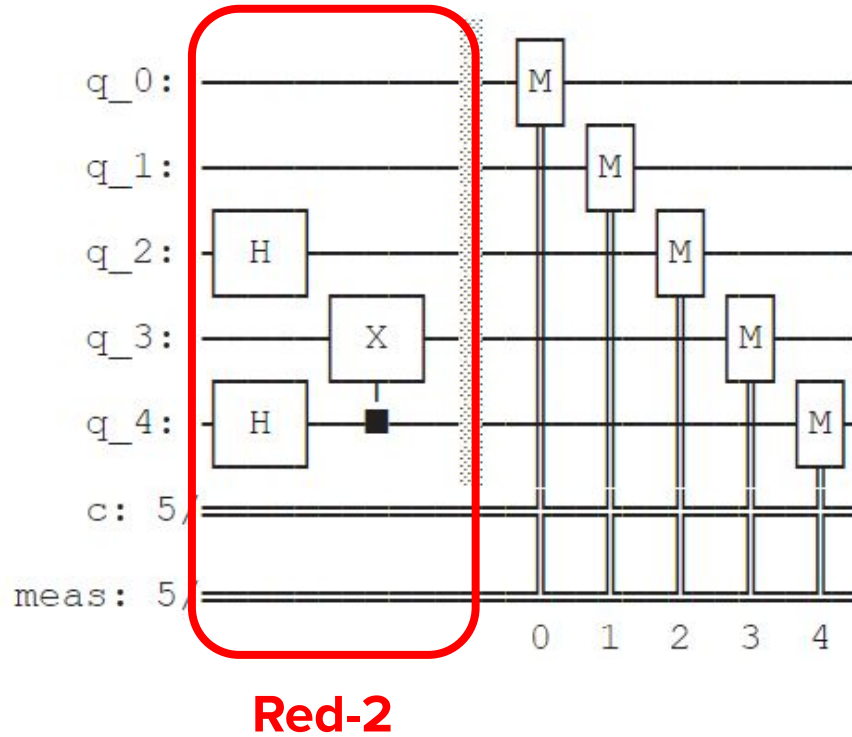
- Each card has a different random circuit on it.
- Each new card you put down, adds the new circuit to the previous one.



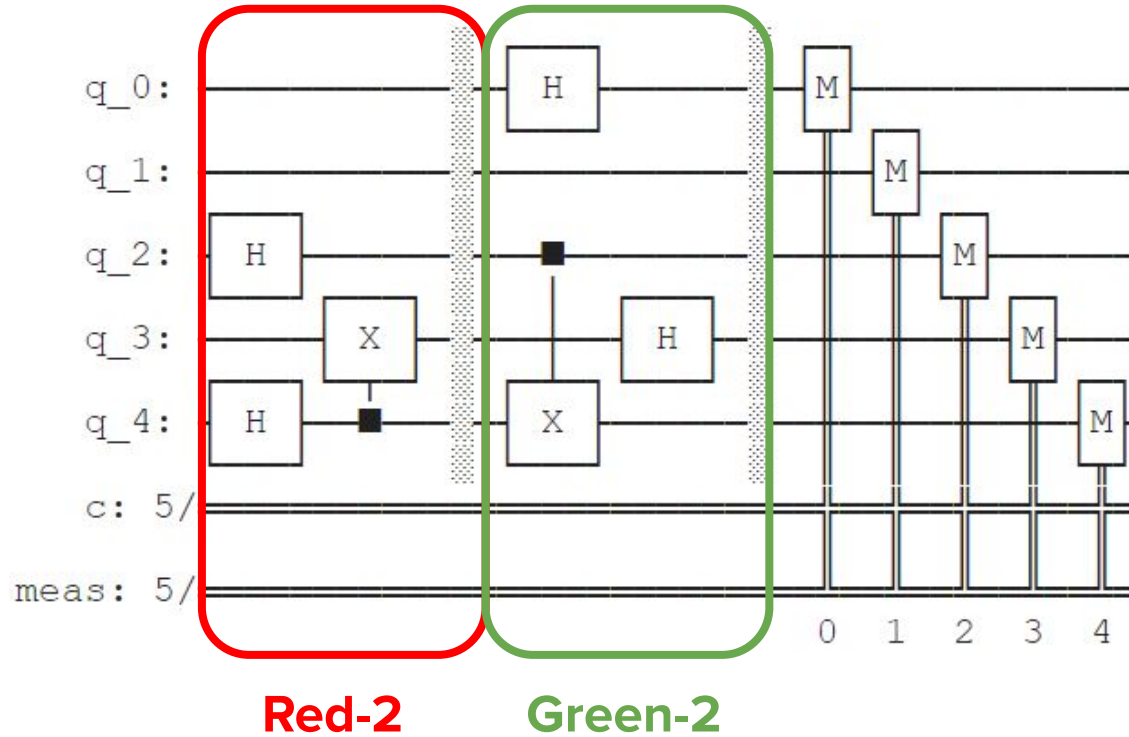
What happens when we add a card?

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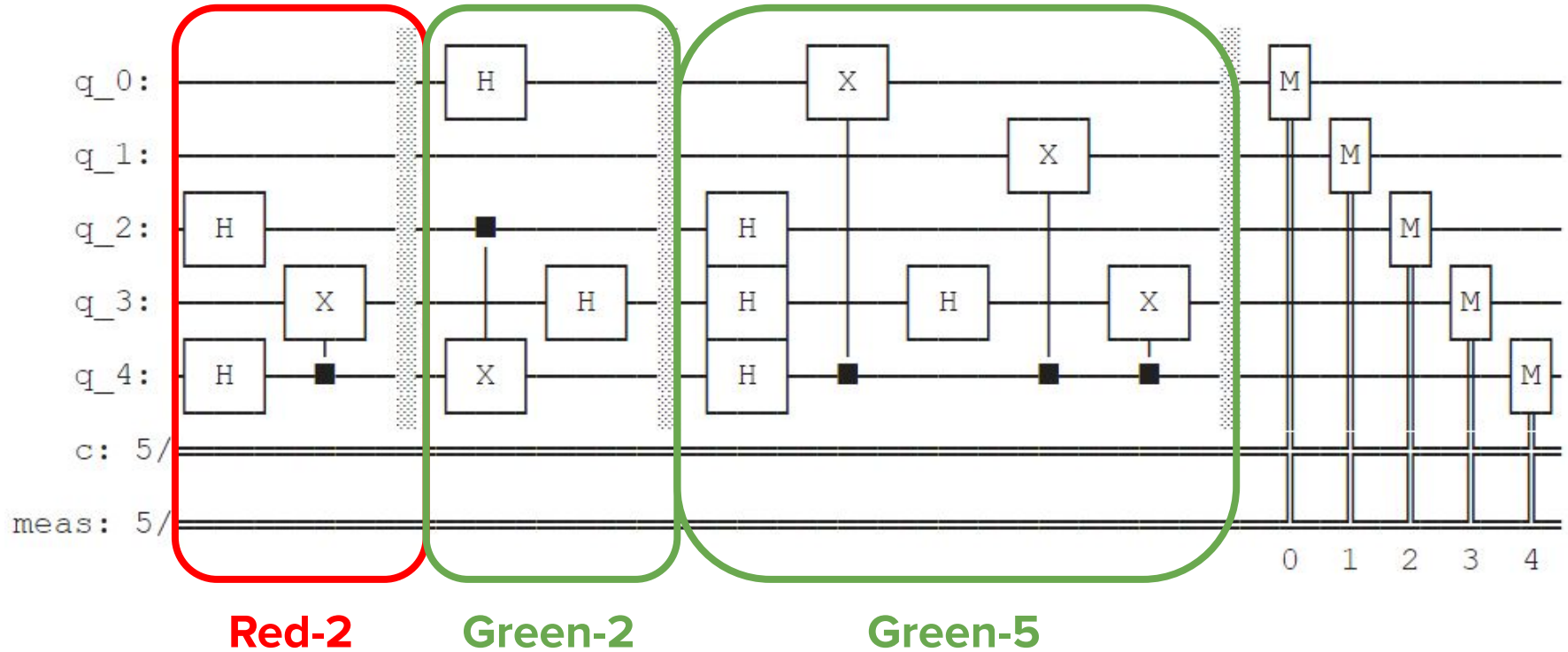
# Jenga Principle of Stacking Cards



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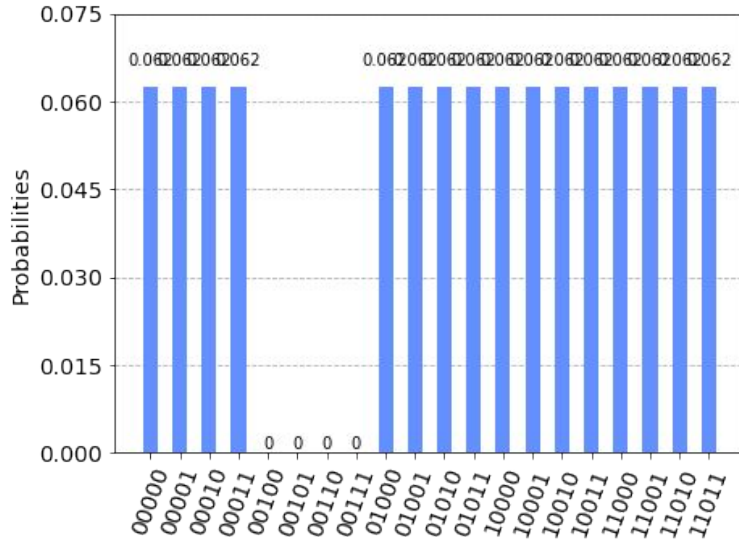
What do we do with the hardware  
calculation?

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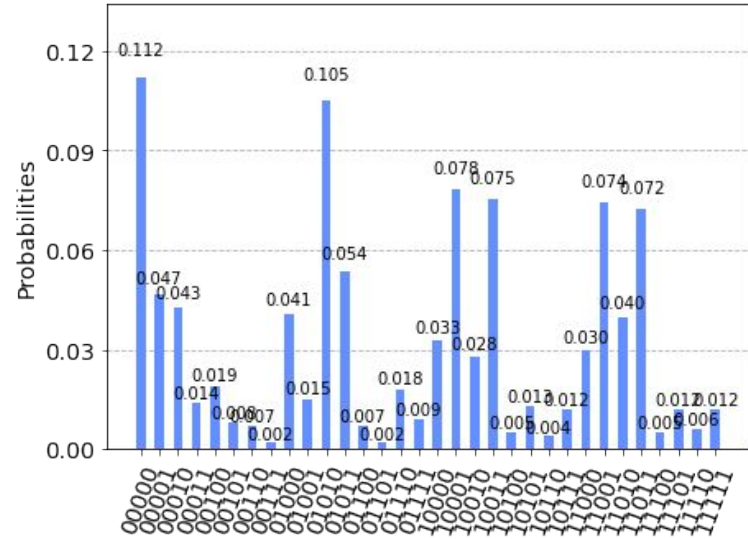


# Simulation VS Quantum Hardware

- Ideal



- Noisy
- With increasing depth of circuit, the result has a higher chance of being erroneous.



Who is the winner?

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If the overlap between the two probability functions  $> 0.80$ : the last player wins

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If the overlap between the two probability functions  $< 0.80$ : the previous player wins

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Thank you!

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