

8.2 Outcomes and Tree Diagrams

*Objective - To count outcomes by using
tree diagrams*

A man has two pair of pants.



Black



Blue

He has three shirts.



Dark



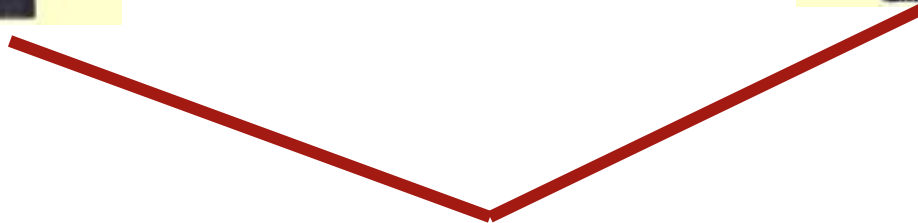
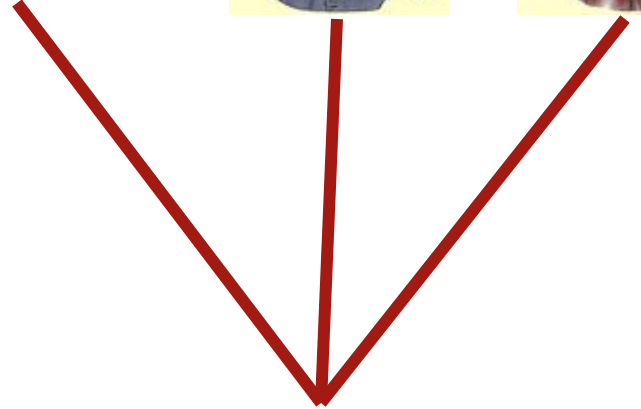
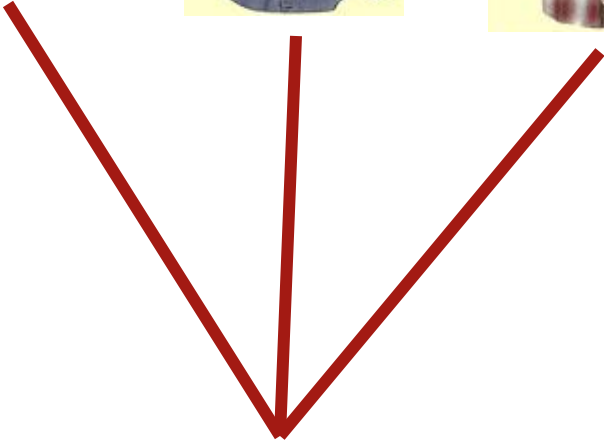
Light



Striped

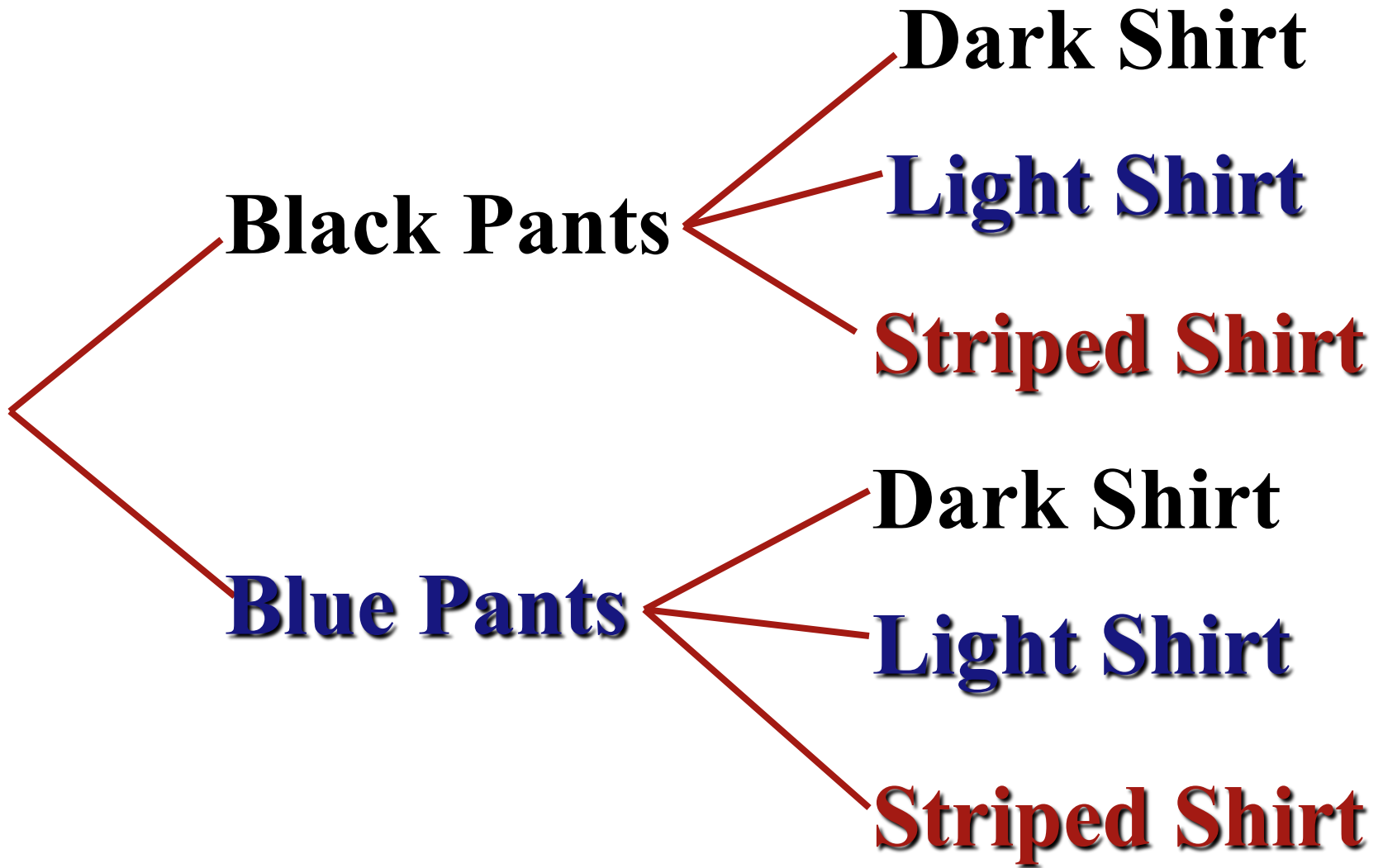
How many different ways can he dress?





Six ways.





$$2 \times 3 = 6$$

Heads



or



Tails

A nickel has two sides



Head



Tail

Outcome of 1 flip



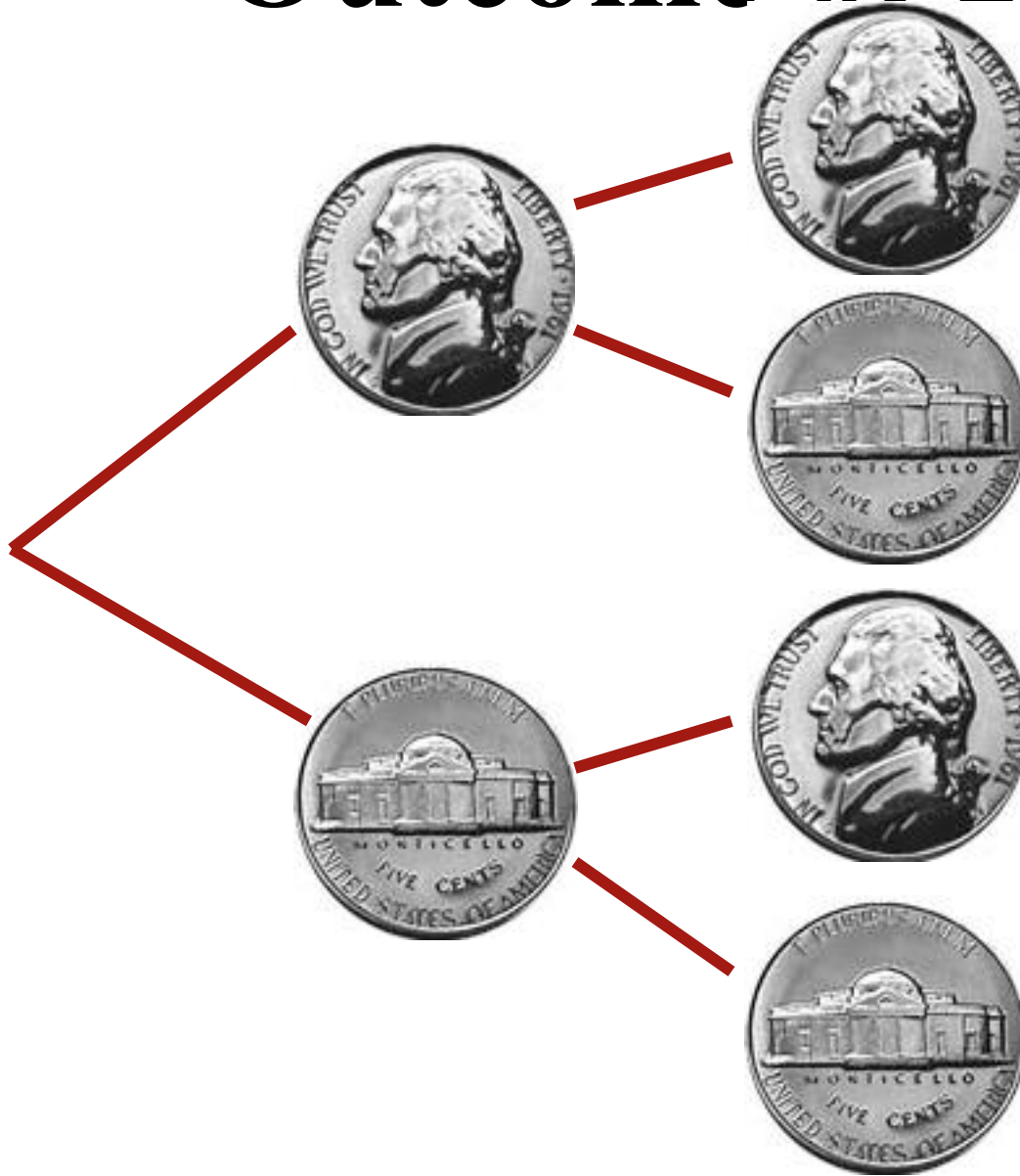
Head

or

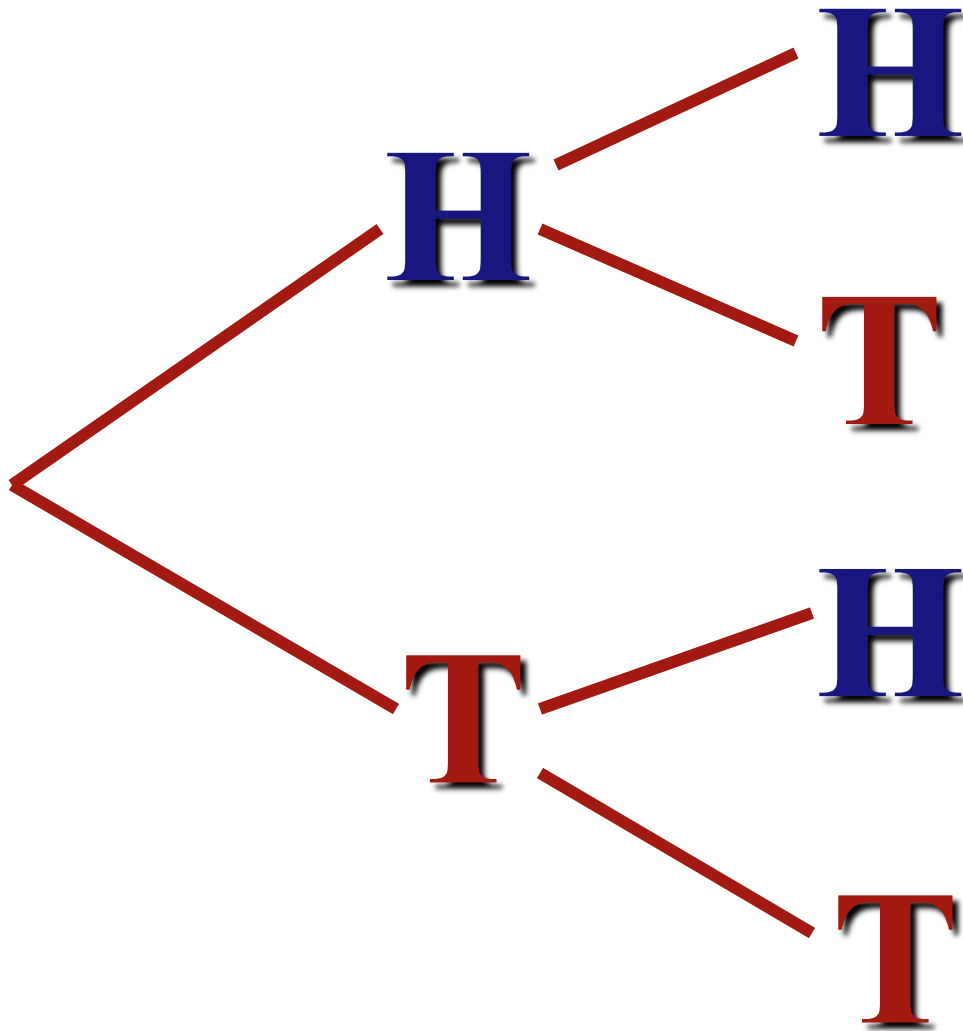


Tail

Outcome of 2 flips



Tree Diagram of 2 flips



$$2 \times 2 = 4$$

Outcome of 2 flips

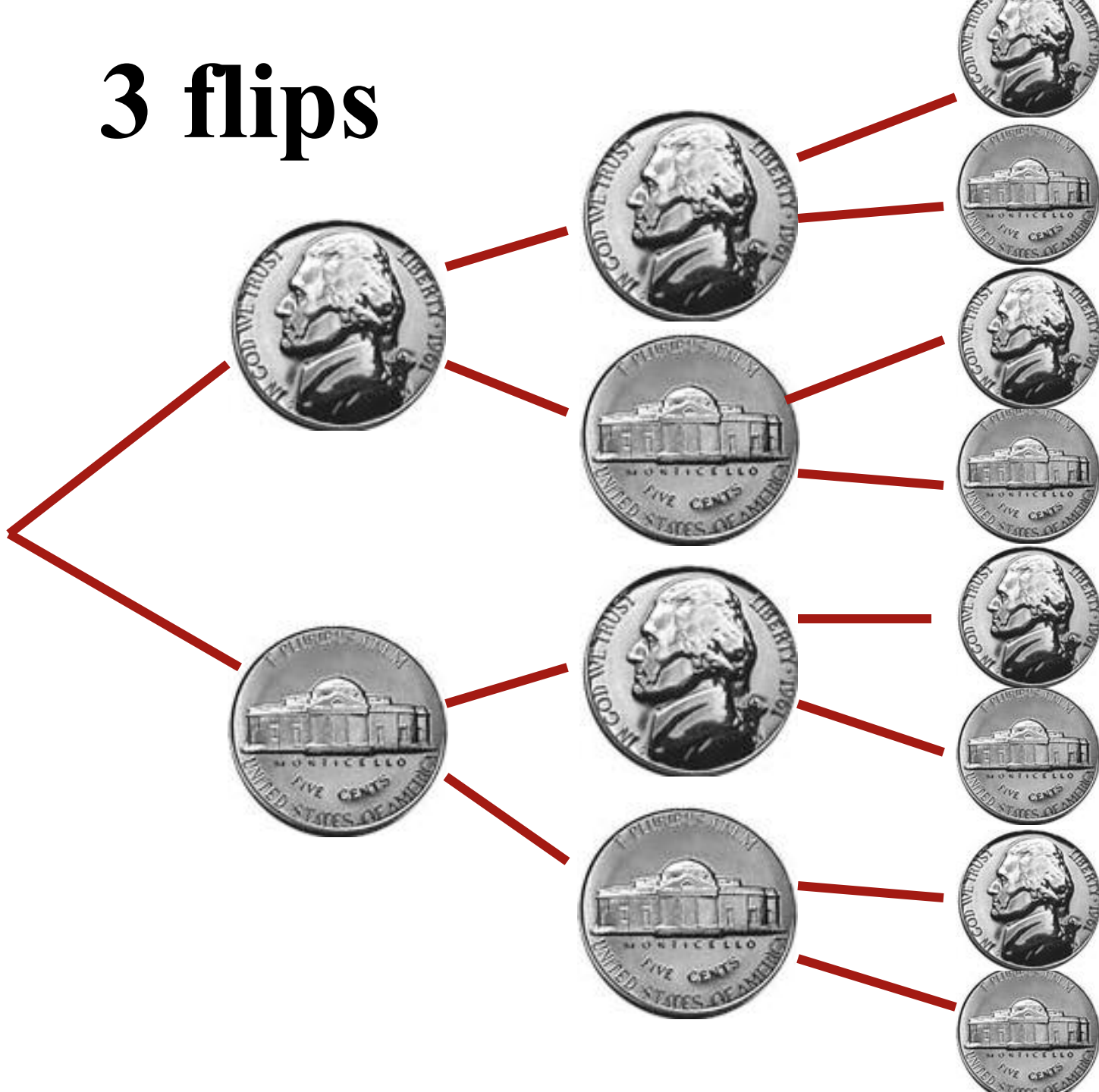
H H

H T

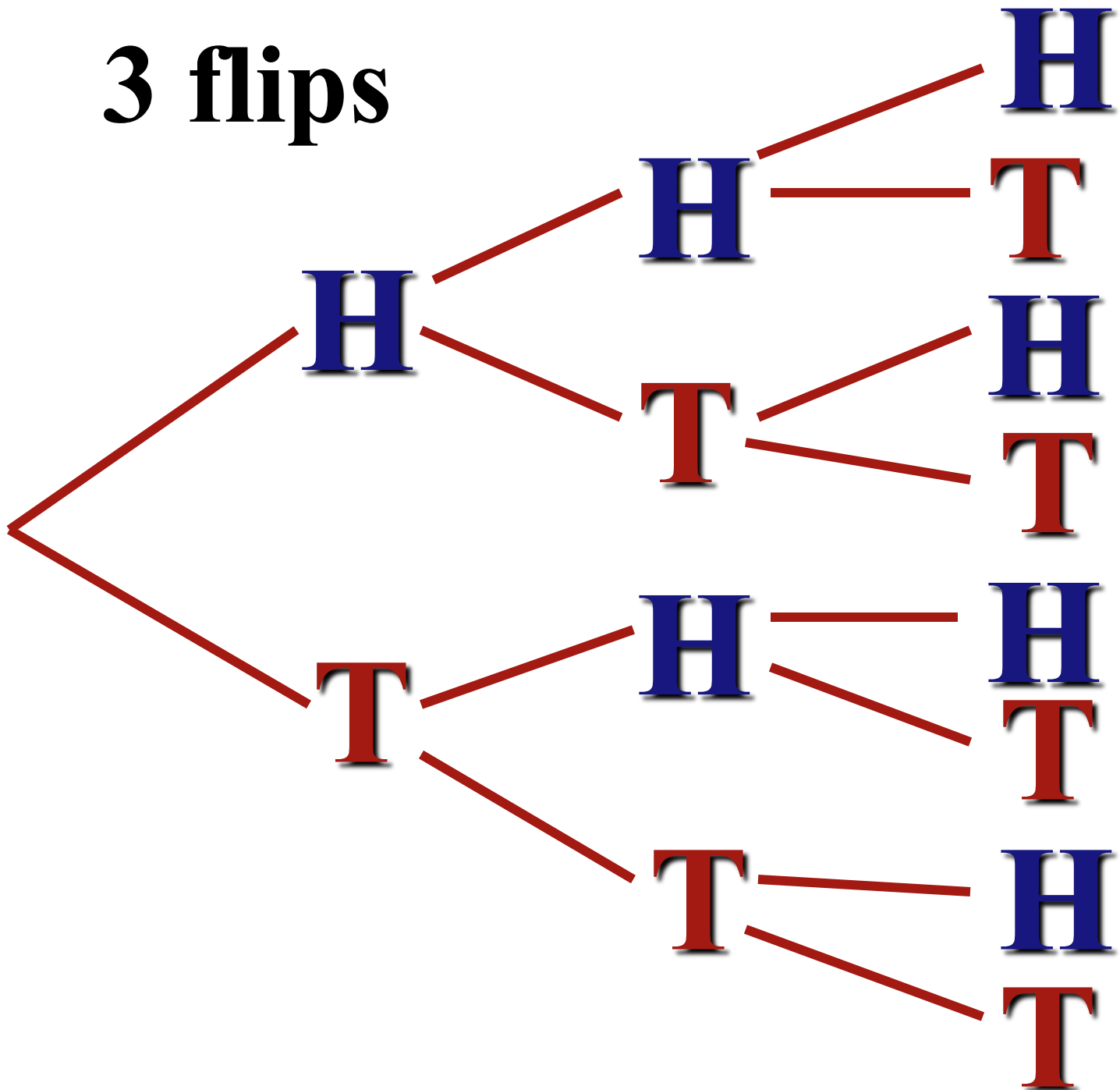
T H

T T

3 flips



3 flips



$$2 \times 2 \times 2 = 8$$

3 flips

H

H

H

H

T

T

T

T

H

H

T

T

H

H

T

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H

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H

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H

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