



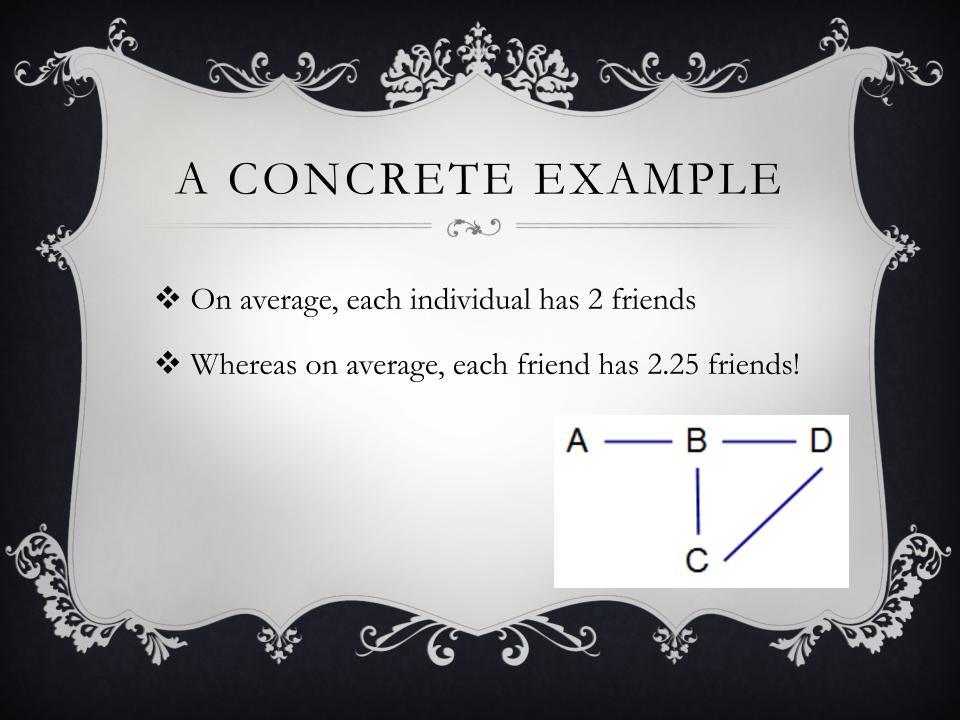
Person	# of friends (=i's Score)	# of friends of i's friends (=total score of i's friends)	Average # of friends of i's friends (=average score of i's friends)
A	1	3	3 (=3/1)
В	3	5 (=1+2+2)	1.67 (=5/3)
С	2	5 (=3+2)	2.50 (=5/2)
D	2	5 (=3+2)	2.50 (=5/2)

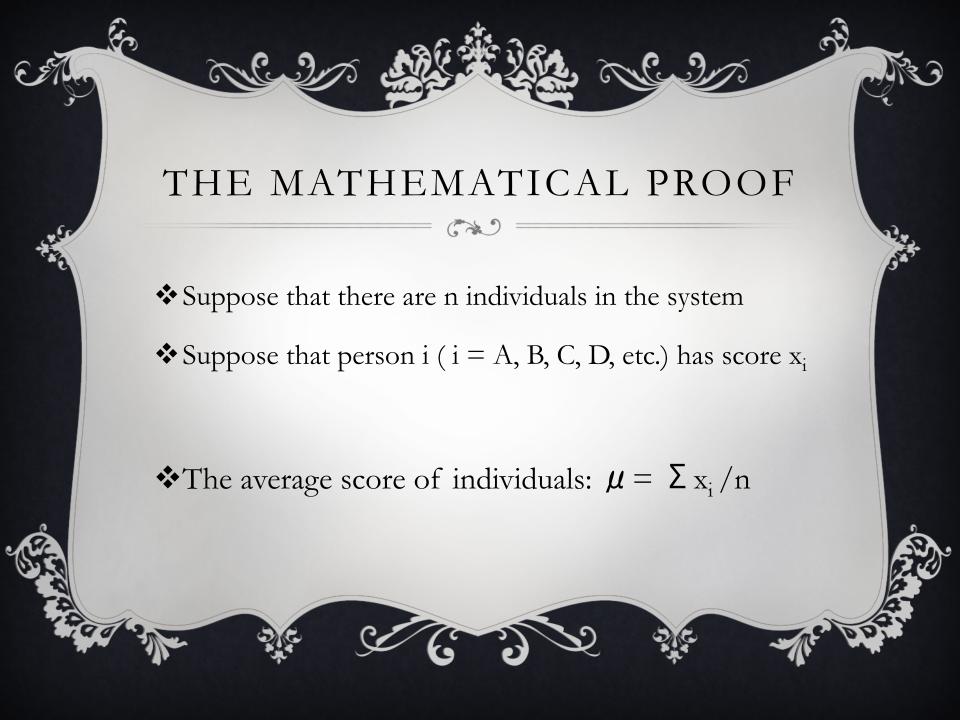


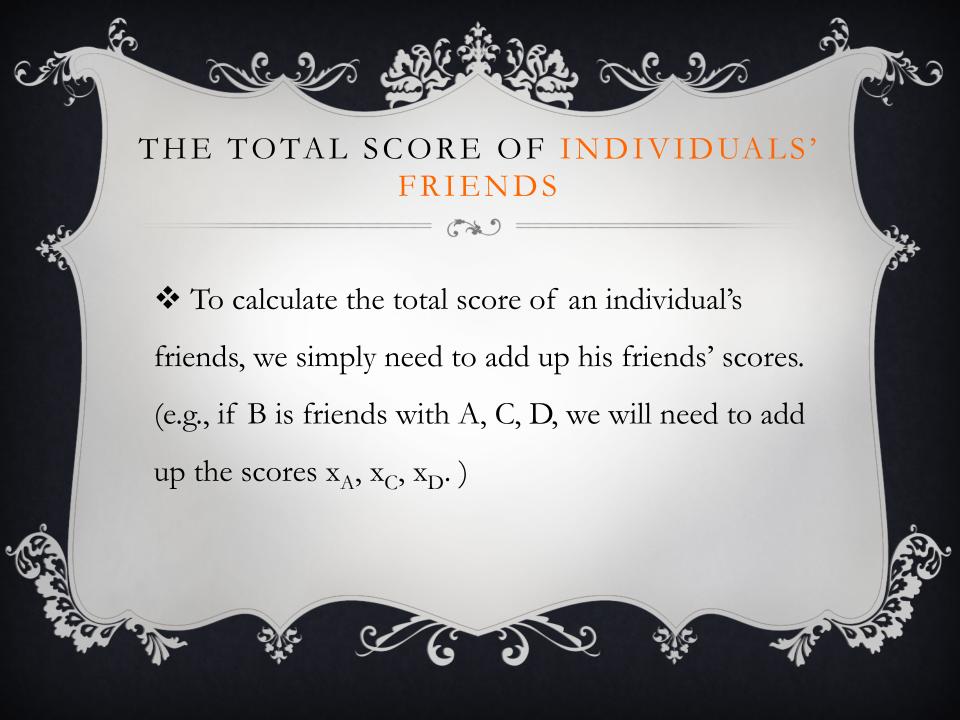
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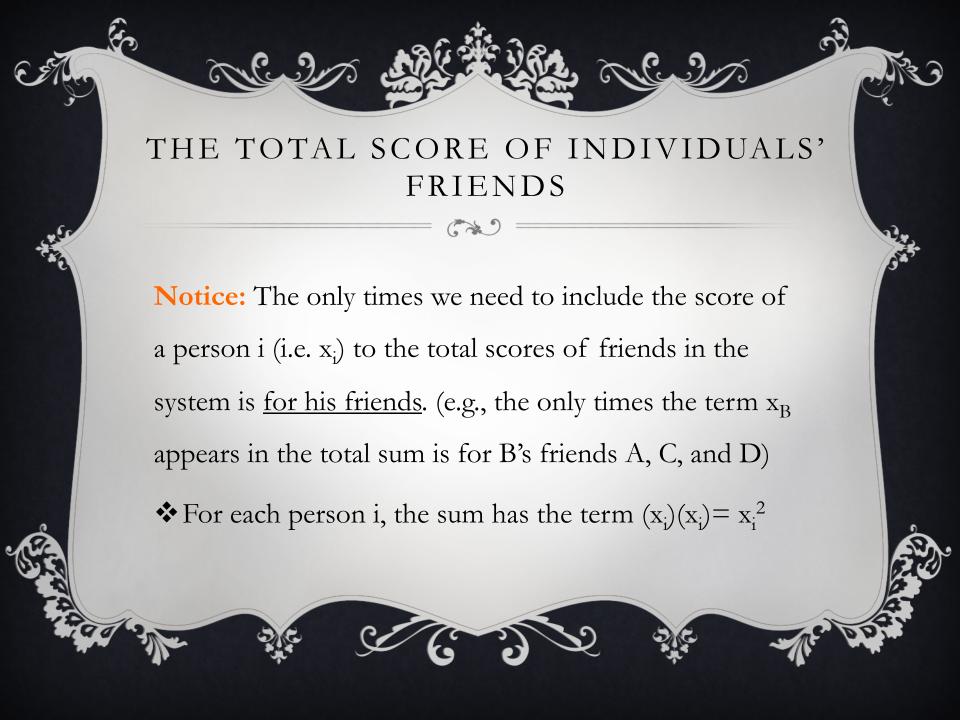


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BY STATISTICS...

• Variance $\sigma^2 = (\sum (x_i)^2/n) - \mu^2$

To re-arrange it:

$$\Sigma (x_i)^2 = (μ^2 + σ^2)n$$

$$\rightarrow$$
 Σ (x_i)²/Σ x_i = (μ ² + σ ²)n/(μ n) = μ + (σ ²/ μ)

