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LE1.1

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LE1.1.1: Quantifying Information

4/4 points (ungraded)

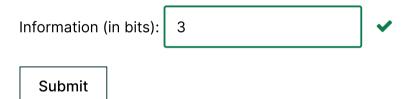
For the problems below enter your responses as numeric values. You may find it helpful to use the built-in calculator -- click the icon in the lower righthand corner of the page. It supports the function "log2(...)" which computes the log-base-2 of its argument.

A) You're given a standard deck of 52 playing cards that you start to turn face up, card by card. So far as you know, they're in completely random order.

• How many new bits of information do you get when the first card is flipped over and you learn exactly which card it is?



B) Z is an unknown N-bit binary number (N > 3). You are told that the first three bits of Z are 011. How many bits of information about Z have you been given?

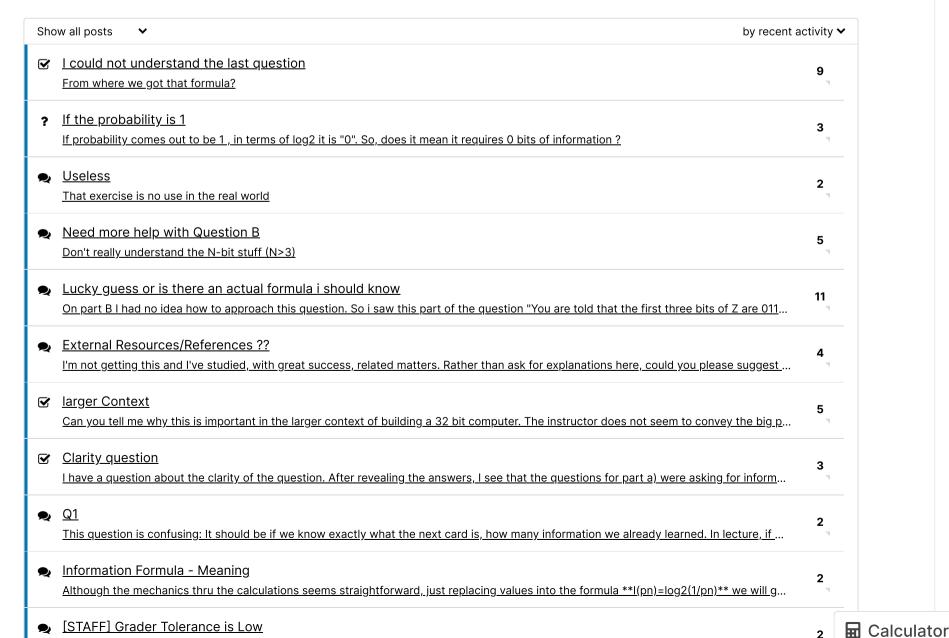


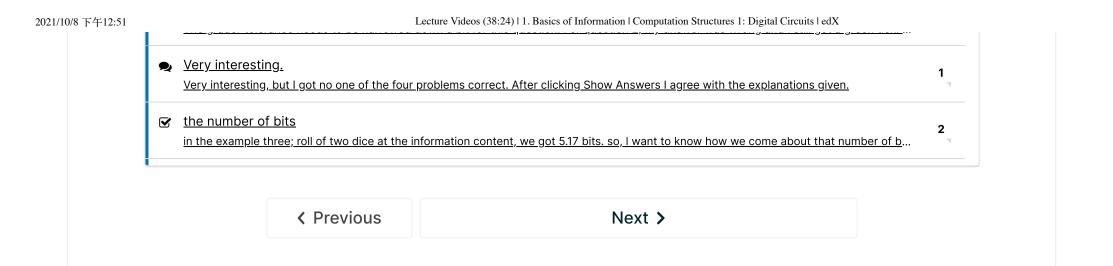
Discussion

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