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Chapter 10 review questions

1. Sign-magnitude uses one bit to indicate the sign. “0” indicates a positive integer, and “1” indicates a negative integer.

Two complement number representation is used for signed numbers on most modern computers. This notation allows a computer to add and subtract numbers using the same operations meaning we don’t need to have adders and sub tractors.

Biased representation is if we have numbers from -8 to 8 we can remove the sign by adding 8 to all of the numbers so your range would be 0 to 16.

1. Sign-magnitude represents negative numbers by 1

Two complement number represents negative numbers by a bit or 7 or 8 digits

Biased representation of negative numbers are by adding the amount needed to that particular number to zero and add that to all the other numbers also.