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Network flows

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information in a computer; methods for rearranging information in a computer into a prescribed order (“sorting”); how to solve basic problems that can be modeled in a computer with a mathematical structure called a “graph” (useful for modeling road networks, dependencies among tasks, and

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financial relationships);  
how to solve problems  
that ask questions about  
strings of characters  
such as DNA structures;  
the basic principles  
behind cryptography;  
fundamentals of data  
compression; and even  
that there are some  
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