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What is Cyber Security?
security is something we have some knowledge of
       types of security we may know about
       airport
       stadium
       stores (scanners at the exits)
       streets (cameras)
to understand what cyber security is, we have to understand what cyber is
       cyber is short for cyberspace
       space is something we have some knowledge of
       physical space
       1d space (point)
       2d space (line)
       3d space (cube, life)
       4d space?
       space space (you know, where the moon is)
       a "space" is just a domain (where something resides)
       it defines a bounded region (like an office or a room)
       cyber is what i call a pop culture word
              other things that fall into that category: world class, data fusion, synergy
       it actually encompasses a large "space"
       but for the purposes of this class, let's restrict it to that space in which digital information moves around
       so you might consider a computer, cable and another computer a part of cyberspace
       but there are other things we can see if we "step outside the box"
       for example, a sensor on a buoy in the ocean that monitors wave height
       it can transmit its data to a remote location in a seemingly invisible "manner"
       this "manner" is a process of modulation where a portion of the electromagnetic spectrum (em) is
utilized to transmit information from the sender to a receiver
       demodulation occurs at the receiving end to decode the message
       the em spectrum includes many things (radio waves, infrared, etc)
bottom line: cyberspace is that space in which digital information moves around
this space requires infrastructure
that infrastructure may include such things as computers, laptops, routers, switches, cabling, sensors, and many
others (including cell phones)
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we know a good bit about computers (and maybe even routers), but all this other stuff is a bit less known

this may involve individual computers and machines (maybe you've heard of antivirus and firewalls)

cyber security is security inside this space

and anything in between