Name:	

## HW1: Von Neumann architecture, and multilayered computing (CS220-01)

1)	Prior to the El	NIAC,	computers used	10 vacuum	tubes p	er digit of	f number	and
multist	ate switches.	How	did the ENIAC ch	nange this?				

- 2) Identify the three main components of a CPU. Half credit for only acronyms.
  - (a)
  - (b)
  - (c)
- 3) (a) What is the basic thing distinguishing the "Integrated Circuit", "VLSI" and "Embedded" generations of computing? (b) What does VLSI stand for?
  - (a)
  - (b)
- 4) Ada Lovelace envisioned a two layered machine vs the previously imagined single layer machine. Why was the addition of a second layer so profound?... why not just use one layer?

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5)	In layman's terms, what is a bus?
6) stored	The EDSAC was the first useful "stored program" computer. Programs had to be somewhere before; what was so special about how the EDSAC did it?
7)	During which discussed generation did the personal computer appear?
8) "bus"?	Which computer in our discussion introduced what we now know as the system
9)	For the basic transistor discussed, what is the purpose of the basis pin?