**History of Computers Student Notes Outline**

1. Counting boards and abaci
	1. Humans have needed to count as long as we have been alive
	2. Until the invention of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ humans used various objects to count for them such as \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
	3. In the times of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ people created counting boards that allowed for the usage of units (10s, 100s etc.) in business transactions
	4. Counting boards are documented as being used as early as \_\_\_\_\_\_\_\_ by the Babylonians
		1. The \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ as we know it today is considered to be ‘modern’ abacus
			1. Appearance first occurs circa 1200 AD in China
			2. These were actually the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and allowed people to utilize large numbers and \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
	1. Son of glove maker who aspired to be a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
	2. Fascinated with automata
	3. Best remembered for two machines; the Digesting Duck and the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
		1. The Digesting Duck was made up of over \_\_\_\_\_ parts were able to flap its wings, quack, drink water, eat, and even simulate defecating
		2. Between \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Vaucanson built on the work of others and built a fully automated weaving loom (called the Jacquard Loom)
3. Charles Babbage
	1. English mathematician, engineer, philosopher and inventor
	2. Believed that \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and went on to design the first two \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ computers; the Difference Engine and the Analytical Engine
		1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ was developed to compute the values of polynomial functions
			1. By using finite differences, it was possible to avoid the need of multiplication and division
		2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ marked the advancement of computers into the programmable realm
			1. Using loops of Jacquards \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ to control a mechanical calculator it implemented \_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_ control, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, and \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ to perform full general-purpose computations
4. Countess of Lovelace (Augusta Ada Byron King)
	1. Daughter of Lord Byron (yes the poet) Ada had an unusual life as an aristocratic girl in the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
	2. Mother insisted Ada’s tutors educate her in \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
	3. Met Charles Babbage at age 17
		1. Eventually became her \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
	4. She was given the opportunity to see Babbage’s \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and became completely captivated by it
	5. Was asked to translate one of Babbage’s articles from French into English
		1. Adding her own \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ the ‘translated’ article was significantly longer than the original
			1. Included ideas such as \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and how codes could be used to translate \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ as well as \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
	6. Considered to be the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
5. Kondrad Zuse
	1. German born civil engineer, inventor and computer pioneer
	2. Greatest invention, the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, came about in 1941
		1. Z3 was the world’s first fully \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ computer based on a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_floating-point number and switching system
			1. Most significant difference between the Z3 and modern computers is the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
		2. Developed what is considered to be the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ first programming language in 1945
			1. Called Plankalkul
				1. First language to utilize \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ to solve problems
				2. Used his new language to write the world’s first computer \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
6. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
	1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ in the US Navy
	2. Helped program the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
	3. Developed the first computer \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
	4. Working on the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_- in \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ she discovered that the program it was running had a compiler error
		1. Upon inspection she found a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ stuck between a set of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and logged it in the engineering book as having found a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ in the computer
	5. Later work led to the development of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
7. John von Neumann (1903-1957)
	1. Austrian-Hungarian mathematician
	2. 1945 undertook a study of computation that demonstrated that a computer could have fixed structure and that \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ could be stored in the same place
		1. Revolutionary in terms of how we thought about computers and their usage
			1. Proposed that computers should store \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ alongside the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ they \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
			2. In his \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ report of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ he described the stored program by drawing an analogy between digital computers and the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
8. ENIAC 1946
	1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ announced the advent of a machine that could complete \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ mathematical equations
		1. ‘birth’ of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_-he Electronic Numerical Integrator and Computer
		2. Introduced the public by the US Army
			1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ vacuum tubes
			2. 8 feet tall
			3. 3 feet deep
			4. 100 feet long
			5. Weighed \_\_\_\_\_\_ tons
			6. First set of calculations was to compute \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ for rocket launches and in only \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ days completed a job that would have taken 3 months of effort by a dedicated mathematician
9. Keyboards and RAMACs 1956
	1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ researchers begin developing a method for \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ input into the computer system
		1. Later became known as a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
	2. Introduction of the first \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ storage device
		1. 305 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ shipped to Zellerbach Paper
			1. The Random Access Method of Accounting and Control consisted of:
				1. 50 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ coated metal platters with 5 million bytes of data (do the math, that’s 5 megabytes)
				2. These platters were \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ on a common drive which rotated
				3. RAMACs were the first \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ drivers
10. Jack Kilby (1323-2005)
	1. July, \_\_\_\_\_\_\_\_ employed as an engineer
	2. Kilby studied the exorbitant costs of manufacturing individual components required to build computers
		1. Called the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
	3. Realized that the individual transistors could be made of a single material and integrated onto a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
	4. Encouraged by a supervisor to provide a\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
	5. In \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ publicly announced the concept of the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
		1. Possibly one of the most significant accomplishments in world history
11. 1960-Development of Major Languages
	1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_-Once again, the military comes into play
		1. Several manufacturers and the Pentagon developed \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ or COBOL
			1. Aimed at making code more easily readable and machine \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ they hoped COBOL would run on most computers for which a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ existed
	2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
		1. First language developed for writing \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
		2. Offered programmers \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ in organization
12. 1301 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
	1. Announced on June 2, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ for use with mainframe computers
	2. Maximum storage capacity for this disk was \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ characters
	3. Had \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ arms and heads which are still used in modern mechanical hard drives
	4. It was leased for \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ per month or purchased for \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
13. 1963
	1. Introduction of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
		1. Allowed for a standardized \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ representation of each key on the keyboard;
			1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (both upper and lower-case letters)
			2. Special characters
			3. Certain functions such as return (what we now call ‘enter’)
		2. Permitted the exchange of \_\_\_\_\_\_\_\_\_\_\_\_ between \_\_\_\_\_\_\_\_\_\_\_\_\_ of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ computer systems
14. 1964
	1. Networking
		1. First \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ transaction processing
			1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ reservation system
			2. Allowed flight data to be retrieved in less than 3 seconds via a telephone network system that connected \_\_\_\_\_\_\_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_\_\_\_\_
		2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ programming language \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
			1. Developed and released by \_\_\_\_\_\_\_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ who needed an easy to learn programming language for their students at \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
15. 1965
	1. Kristen Nygaard and Ole-John Dahl developed \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ the first \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ programming language
		1. Object-oriented languages group data and instructions into \_\_\_\_\_\_\_\_\_\_\_\_\_ called objects
		2. Each object represents one facet of a system intended for \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
16. ‘Space Race’
	1. \_\_\_\_\_\_\_\_\_\_\_\_\_ race against Russia to land on the moon
	2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ space craft was guided into Earth’s orbit by the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ in \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
		1. Same computer would take \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ to the moon one year later
17. 1969
	1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
		1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (defense Advanced Research Project Agency) created ARPANET (Advanced Research Project Agency Network) as an \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ environment for new \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ technologies
		2. The first nodes that formed ARPANET were \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Research Institute
		3. First WAN to implement packet switching and \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ protocols
18. 1970
	1. First \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ was installed in Valdosta, Ga.
	2. ARPANET expanded by adding four more universities to its network
	3. First mobile robot controlled by \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
		1. Called Shakey
		2. Equipped with
			1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ camera
			2. Range \_\_\_\_\_\_\_\_\_\_\_\_\_\_
			3. Bump sensors
		3. Shakey transmitted the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ via sensors to a computer which then radioed back commands
19. 1972
	1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ CPU introduced
		1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ word (256 unique word arrangements of binary digits)
		2. Ability to work with the majority of the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ system including upper and lowercase letters, all numbers (0-9), punctuation, and many other symbols
	2. First true \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is released
		1. Designed by Al Alcorn
		2. Very popular and revolutionized the arcade industry while launching the modern video game industry
20. 1975
	1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_ computer kit appeared on the front cover of Popular Mechanics
		1. Based on the \_\_\_\_\_\_\_\_\_\_\_\_ CPU became wildly popular within a short period of time
			1. Invented by \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ the 8800 sold for $300-$400. Roberts was the first person to use the term ‘\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_’
			2. Paul Allen and Bill Gates licensed \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ as the software language for the Altair
21. Steve Wozniak
	1. Designed a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ in \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
	2. Mountainview, CA computer store ordered 50 machines leading Steve Wozniak and \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ to found their own computer firm
22. 1977
	1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
		1. Came \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
		2. Easy to operate \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
		3. Could order it with either \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ or kilobytes of memory
	2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ was released
		1. Included a Z80 CPU \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
		2. 4 kilobytes of memory
			1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ was primary language
			2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ storage
		3. Manuals
		4. Machine was considered a bargain at $600
			1. In the first months of release, more than 10,000 units were sold
	3. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
		1. First personal Video Computer System \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
		2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ processor
		3. Designed to be connected to a home
23. Showckwave Rider
	1. John Brunner authored
		1. In the book a \_\_\_\_\_\_\_\_\_\_\_\_\_ program attacks and runs through a network of computers
	2. John Shoch and Jon Hup that same year discover the first computer \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
		1. Initially \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ to provide more efficient use of idle \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ in a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ for \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ purposes
		2. Unfortunately worms tend to invade \_\_\_\_\_\_\_\_\_\_\_\_\_\_ computers on a given network which ultimately creates a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
		3. Having read Mr. Brunner’s book Schoch adopted the term and this the first ‘virus’ was named
24. 1981
	1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ PC
		1. Ran on a \_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_ processor
		2. Utilized the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ operating system
25. 1984
	1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ driven computer introduced
26. Bjarne Stroustrup published \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
	1. Developed the language due to a desire to write \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ in a language faster than Simula
	2. C++ became dominant \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ programming language
27. 1990
	1. Scientist at CERN developed \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
		1. Allowed Internet to expand into the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ implementing things such as \_\_\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_\_\_\_\_, and queries to servers
	2. First OS that satisfied PC users and provided support for \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ large applications was released
28. 1991
	1. Finnish student \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ was dissatisfied with the state of the computer software industry as they became more secretive \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and with their code
		1. Subscribed to \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
	2. Wanted to work with an operating system whose code was \_\_\_\_\_\_\_\_\_\_\_\_ to the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ user
	3. Wrote first widely available \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ OS
29. 1993
	1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ processors released
		1. 5th generation of the \_\_\_\_\_\_\_\_\_\_\_\_\_\_ line
		2. Was the basis for the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and its clones
	2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ web browser introduced
		1. Average user finally gained \_\_\_\_\_\_\_\_\_ access to the Internet
		2. Prior to this time all Internet access was through \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ line browsers