Name(s): _________________________________________________

Circle Section(s): A (10am), B (11am), C (noon), D (1pm), E (2pm), F(3pm), G(4pm)

**Computing Scavenger Hunt**
Due at the beginning of class on Monday, Aug 26th

Points Earned: ______________  Scaled out of 6: _______________

For full credit on this assignment, you need to correctly complete at least **60 of the 85 possible points**. If you do not complete 60 points correctly, your grade will be the number of points completed out of 60. If you complete more than 60 points correctly, good for you (but you will not get extra credit). Your grade on this assignment will be scaled to be out of 6 points and entered into Canvas. All of the answers can be discovered **around campus**, in zyBook assignments, or through web searches online. Expect this assignment to take you 30-90 minutes (depending how much energy you want to put into it!) You can do this assignment with **one friend/peer**; if yes, **both** names (and **both** section numbers) should be included on the answer sheet. Any student who receives 85 points will be put into a raffle for two CS@Mines t-shirts.

1. (5 points) Who is well known for developing methods to decipher messages during WWII?
2. (3 points) ...and what was the name of the machine that transmitted secret messages?
3. (5 points) Friday (Aug 23rd) from 4pm to 7pm, the Mines ACM Student Chapter will be at (or was at) the Celebration of Mines. What is the name of the model of computer that they used for mailing list signup?
4. (3 points) ...how much RAM does it have?
5. (3 points) “ACM”, as in the “Mines ACM Student Chapter” or the “ACM ICPC”, stands for what?
6. (4 points) Many CS@Mines students participate in events known as “Hackathons.” Describe what one of these events entail.
7. (3 points) The first personal computer was built by John Blankenbaker in his garage. What year did he build this computer?
8. (3 points) U-CLIMB is a near-peer mentoring program for this course. Write one fact about the program found on the U-CLIMB homepage. A link to this site can be found on the contact page of the 101 course website.
9. (5 points) Who popularized the idea of machine-independent programming languages which led to the development of high-level programming languages?
10. (5 points) What is the name of the Linux lab located at BB 136?
11. (8 points) ... and what does it stand for?
12. (3 points) What is the most fundamental difference between a Linux operating system and a Windows operating system?

13. (2 points) The “Isengard” server is accessible to all Mines students. Which operating system does it run under?

14. (2 points) Describe the difference between volatile and non-volatile storage. What type of storage is volatile?

15. (8 points) Name all the kinds of non-volatile storage displayed at the computing history showcase in the east side of the CTLM building.

16. (4 points) How much did the Osborne computer displayed in CTLM cost? What year was it debuted?

17. (2 points) How much memory did the hard disk on the Dell 320 Notebook displayed in CTLM building have?

18. (4 points) OreSec is a cybersecurity club at Mines that will host its 1\textsuperscript{st} meeting of the year on August 26th at 6:00 PM in the ALAMODE lab. Denial of service is a cyber security threat. Describe what that means.

19. (3 points) Where is the SINE lab located and what does it stand for?

20. (3 points) Guido Van Rossum published the first version of this high-level programming language in February of 1991. Which programming language was this?

21. (3 points) In the 1980s the first object-oriented language to be widely used commercially was developed by Bjarne Stroustrup. Which programming language does this refer to?

22. (4 points) Which of the following was the primary innovation of the Von Neumann architecture?

   a. Use of transistors instead of vacuum tubes
   b. Ability to perform floating-point (real number) calculations
   c. Storage of program instructions in the internal memory unit
   d. Purely electronic design, no mechanical parts for computation