  What is your favorite programming language?

2.       What was the hardest coding assignment you’ve done.

3.       Given 2 numbers, how would you swap their values without using math, built-in functions or a third variable.

4.       How to find a file using java?

5.       How to delete all the files in a specific directory?

6.       In UNIX, how do you list all the files in a specific directory?

7.       In UNIX What does Grep stand for and what does it do?

8.       Find max value in an array without built-in functions

9.       Given an array of integers, determine which integers are prime numbers

10.   Given a text file, how do you find all the unique words inside the text file?

11.   Find the word with maximum number of occurrences in a given text file

12.   How would you show the first 100 prime numbers?” (How to get all prime numbers between 1-100) - This was followed up with, “how would you determine if any number is prime?”

13.   Return a list of prime numbers between 20 and 50?

14.   Return a list of prime numbers between 20 and 40?

15.   Return a list of prime numbers between 50 and 100?

16.   Implement prime number in a code algorithm and give the answer of 21 mod 20 / 19.

17.   Implement a way to check for duplicates?

18.   How do you find the nth Fibonacci number? How would you optimize this? (assuming that the most optimal way was not given)

19.   Given a website filled with bear facts, how would you count all the times the word 'bear' has occurred? Be aware that 'bear' in double quotes should be included in the count, but the word 'unbearable' should not be included.

20.   What if there were multiple websites of bear facts? How would you keep track of the count for each website?

21.   What is the modulus operator?

22.   Given two *.txt* files containing JSON strings with the same keys but different values, how would you parse the strings to determine which keys contain the same values? You cannot use any external modules

23.   Can you explain the difference between a B-Tree and a Binary Tree?

24.   Have you heard of a Directed Acyclic Graph?

25.   (Coding) Implement a breadth-first search. What data structures would be involved?

26.   (Coding) Reverse the order of a singly-linked list.

27.   (Riddle) Given a 3 gal. bucket and a 5 gal. bucket and all the water you need, measure out 4 gallons.

28.   (Logic) How would you find a loop in a faulty binary tree structure?

29.   Swap two variables without the use of a 3rd.

30.   Find max value in an array without built-in functions?