As discussed, please find the below details:

The coderpad is a 2-way terminal session where you will be asked to code to a question or questions. The initial skeleton of the code and embedded questions as comments will be presented to you. Most important is that you complete it timely with minimal simple errors, and in the end that the code runs and you can explain it. You may be asked to walkthrough your solution and then further optimize it as well.

You can also register in Coderpad website and practice some programing to feel the environment <https://coderpad.io/>

**Important Topics:**

1. Object-oriented basics
2. Data structures and algorithms
3. Java basics
4. Exception handling
5. equals() and hashCode() methods
6. Java Collections

**Important Tips:**

1. It’s an online IDE tool for conducting interviews. It has autocomplete features (method names, class names suggestions). You can type few characters of the method/classname and press CTRL+Space to see available options.
2. **However, Coderpad does not import classes automatically for you.** Remember the import paths for the most common classes like Map, ArrayList, Set, etc. And keep in mind to import them if you use them in your code.
3. Importantly, **Coderpad will not highlight syntactical errors, so if code does not compile be cognizant of syntax and look there for issues as well**, this is a frequent scenario where candidates trip up.
4. Interviewer is most interested in testing your coding skills. Hence prepare some programming questions before appearing for the interview.
5. Read the question carefully. Take some time to breakdown the question and think about possible solutions.
6. Questions are designed to test your ability to think.
7. Writing clean code is important. Extra points if your code is also efficient.
8. Be relaxed, don’t panic if you can’t find a solution. If nothing, go with brute force approach.
9. Try to leverage Java collections to solve the question.

Please do some internet research on Goldman Sachs and Coderpad questions and be knowledgeable with the types of questions (bullets) listed below. Typically, they are asking you to dig back into your college / theoretical days. Please read up on these (below) (these are not the actual questions, but for guidance) and be ready at a working computer and clear phone signal. You can also register on Coderpad.io to get more familiar with the tool.

1. subArrayExceedsSum
2. Best Average grade
3. Prime factorization
4. Find if the number is a power of 10
5. first non-repeating char in an array/ String
6. Second Smallest Integer in array/list
7. Print Fibonacci Series
8. Palindrome
9. Collections
10. Given two sorted linked list, combine both into a single sorted linked list
11. Given a set of words (e.g. cat, dog, God, act, tac), print each set of Anagrams on a separate line.

Eg.

cat,act,tac

dog,God

1. Given a log file search for rows containing a specified IP address
2. Given a string find the sequence have most repeated characters
3. Dot product of Array
4. Robot Graphical Positioning
5. Pascal’s Triangle
6. Average score of the Student
7. Addition of an array of Fraction.
8. Merge 2 sorted array and find median of the resulting
9. Given a string check if it is Pangram or not. A pangram is a sentence containing every letter in the English Alphabet.
10. **Trapping Rainwater** Given n non-negative integers representing an elevation map where the width of each bar is 1, compute how much water it is able to trap after raining.