At Google, we hope to make the interview process challenging and enjoyable. Our interviews lean towards **fundamentals - data structures, algorithms, coding, system design, distributed system** - and may be different than what you are doing in your day to day.

**Basic Tips:**

* Ask Questions & Seek Clarification
* Pattern Recognition
* Think out loud - Talking through the thought process. It is similar to having a conversation with the Interviewer!
* Time Management - Time yourself to finish the codes for the 1-2 problems asked. Finishing the efficient, bug free, optimized, clean and concise code in the given time is the key.

**Resource 1: Videos & PDF**

* Check the videos attached to my signature
* [Google Interview Demo Workshop](https://www.rediffmail.com/cgi-bin/red.cgi?red=https%3A%2F%2Fwww%2Eyoutube%2Ecom%2Fwatch%3Fv%3D4P95QlWp%2D5c%20A3YCNgYrAiRXcFZtUTgJOwJzAy8LZ11n%20VCFTZwQpAScAJ1dsUTgKOFcmV3sJZVJo&isImage=0&BlockImage=0&rediffng=0&rogue=60e9f107e94e27b92f6b043c095129f0542003f9&rdf=UmpTIwQtBHEANAAtBSMGIQI5XjdfbVAhUHwIZFNp)
* Two PDF documents attached

**Resource 2: Data Structure & Algorithms**

We do expect you to know a lot about algorithms and data structures and especially be able to to implement them into your solutions. *You should know Big-O really well, along with searching and sorting algorithms, trees and hash tables to name a few.*

* [Data Structures and Algorithms](https://www.rediffmail.com/cgi-bin/red.cgi?red=http%3A%2F%2Flib%2Emdp%2Eac%2Eid%2Febook%2FKarya%2520Umum%2FDsa%2Epdf&isImage=0&BlockImage=0&rediffng=0&rogue=cd786b49672ff9aedcdb55702729b3cdd280aefd&rdf=Vm4CcgQtVCFWYgQpACZQd1FqUTgLOVcmBytaNlVv)
* [500 Data Structures and Algorithms༯u>](https://www.rediffmail.com/cgi-bin/red.cgi?red=https%3A%2F%2Ftechiedelight%2Equora%2Ecom%2F500%2DData%2DStructures%2Dand%2DAlgorithms%2Dpractice%2Dproblems%2Dand%2Dtheir%2Dsolutions%3Fshare%3D1%26amp%3Butm%5Fmedium%3Demail%26amp%3Butm%5Fsource%3Dhackernewsletter%26amp%3Butm%5Fterm%3Dcode&isImage=0&BlockImage=0&rediffng=0&rogue=58bc787ad2379983977d56a595cd6114ee252874&rdf=Bz8IeFN6B3IFMVB9BCIHIFZtUjtfbVgpV3sLZ1Np)
* [Top 10 Algos in Interview Questions](https://www.rediffmail.com/cgi-bin/red.cgi?red=http%3A%2F%2Fwww%2Egeeksforgeeks%2Eorg%2Ftop%2D10%2Dalgorithms%2Din%2Dinterview%2Dquestions%2F&isImage=0&BlockImage=0&rediffng=0&rogue=18929d826b697debaf35fa11f1d8187a8ec9ede2&rdf=UWlVJVB5BHEBNVZ7U3UDJFVuUjsAMgd2BytZNVdt)
* [Big-O Cheat Sheet](https://www.rediffmail.com/cgi-bin/red.cgi?red=http%3A%2F%2Fbigocheatsheet%2Ecom%2F%2FVnBXcAY9UTgLOVgpUn4JZVRu&isImage=0&BlockImage=0&rediffng=0&rogue=5e5d8819c1e4e017c15dc777979f00e76dd188c7&rdf=X2cJeVJ7UyYBNVV4BSNQd1dsAmsMPgV0BCgBbQE7)
* [Coursera - Algorithms, Part 1](https://www.rediffmail.com/cgi-bin/red.cgi?red=https%3A%2F%2Fwww%2Ecoursera%2Eorg%2Flearn%2Falgorithms%2Dpart1%20UCVUYFB9VHJRdltgAmtbaQBxVHgMYFdt%20BXAANFB9V3EHIFZtXjddbwd2ACwIZFFr&isImage=0&BlockImage=0&rediffng=0&rogue=368e4a21b925224d1a8dcddf1c20abcfd4906e59&rdf=UWkGdlV8BXBSZlR5AyVWcVVuA2pbaQBxACxeMgY8)
* [Coursera - Algorithms, Part 2](https://www.rediffmail.com/cgi-bin/red.cgi?red=https%3A%2F%2Fwww%2Ecoursera%2Eorg%2Flearn%2Falgorithms%2Dpart2&isImage=0&BlockImage=0&rediffng=0&rogue=338aa6208a8d62fcdec79aec2a20f5b55144094d&rdf=AzsCclJ7ViMGMgAtACYGIVZtUDkJOwV0VnoAbAY8)
* [https://algs4.cs.princeton.edu/cheatsheet/](https://www.rediffmail.com/cgi-bin/red.cgi?red=https%3A%2F%2Falgs4%2Ecs%2Eprinceton%2Eedu%2Fcheatsheet%2F%20ViNRZVxxCy0BJltgBG1YalYnWHQBbQQ&isImage=0&BlockImage=0&rediffng=0&rogue=4f3ef5cb7ef9c96725242a1531d6ca2ea2c3ff19&rdf=U2sHdwIrUSRUYFZ7BiAHIFZtUThcbgd2VHhaNl1n)

**Resource 3: Coding**

For the coding, the most important aspect is how fast and efficient your solution is. Look to optimise and debug as much as possible. Code should be readable and maintainable by other people sharing a large codebase.

We look for clean and concise solutions, and well-structured code with good use of variable and method names. You should know the coding language well and make good use of it’s features.

**MOST IMPORTANT**: Time your self during the interview while writing code. You will be asked 2-3 problems / puzzles during the interview.

* Library Functions on tips
* Deep dive into coding using websites like [LeetCode](https://www.rediffmail.com/cgi-bin/red.cgi?red=https%3A%2F%2Fleetcode%2Ecom%2Fproblemset%2Fall%2F%20UzpcblAhUX0NYVxm&isImage=0&BlockImage=0&rediffng=0&rogue=49d1ba625f4708e90366a2d1cae5572789094e93&rdf=VGxRIQYvXyoBNQQpACYFIgA7VD0OPFgpBCgMYFJo" \t "_blank) (Go to problems -> algorithms), [Hackerrank](https://www.rediffmail.com/cgi-bin/red.cgi?red=https%3A%2F%2Fwww%2Ehackerrank%2Ecom%2F%20ByFXcFNoBG0LOVUkUX1bNwA6&isImage=0&BlockImage=0&rediffng=0&rogue=da08c8dd3cbdf82d0b22dcc9a453fb4b664d2fbc&rdf=VW0IeFN6VSABNQMuVHIKLQE6B25fbVQlV3sOYldt), [Geeksforgeeks](https://www.rediffmail.com/cgi-bin/red.cgi?red=https%3A%2F%2Fwww%2Egeeksforgeeks%2Eorg%2Fmedium%2F%20VyJRZQAtVnBTdFtgVj9aaFQlUX1ZNQE7&isImage=0&BlockImage=0&rediffng=0&rogue=67886a965300fdd74fc1eb55309e90da232960a2&rdf=UGgHdwEoA3ZcaAQpBiABJgE6VD0NP1cmWXUIZFRu), [Topcoder](https://www.rediffmail.com/cgi-bin/red.cgi?red=https%3A%2F%2Fcommunity%2Etopcoder%2Ecom%2Ftc%3Fmodule%3DMatchDetails%26amp%3Brd%3D15712&isImage=0&BlockImage=0&rediffng=0&rogue=75da7497fefd0943b7208e35d193bb3f7066bbbd&rdf=VW0Hd1d+ViMBNV1wCiwGIQU+BG1YagV0WHQOYlNp), [interviewbit](https://www.rediffmail.com/cgi-bin/red.cgi?red=https%3A%2F%2Fwww%2Einterviewbit%2Ecom%2F&isImage=0&BlockImage=0&rediffng=0&rogue=e643db40598b3b145ec1c94328ce12e8c8f92564&rdf=XmZUJAQtA3ZdaVB9BSNUc1FqXzYOPFkoWHQLZ1Fr)…etc. (codejam, ACM - ICPC). Practice the medium to hard difficulty questions.
* [Cracking the Coding Interview](https://www.rediffmail.com/cgi-bin/red.cgi?red=https%3A%2F%2Fbooks%2Egoogle%2Eie%2Fbooks%3Fid%3DnlgWywAACAAJ%26amp%3Bdq%3DCracking%2Bthe%2BCoding%2BInterview%26amp%3Bhl%3Den%26amp%3Bsa%3DX%26amp%3Bei%3DhUTtUfXVCoSg4gS5v4C4BQ%20BCIBJlFqVD0PPQBxBysKZgM5&isImage=0&BlockImage=0&rediffng=0&rogue=65100411f6943f60f7d0cbc4072c4b9545900e7a&rdf=ADhSIgYvBHFdaQMuVHJTdFZtUjsPPVMiUX0AbFFr): This is one of the most helpful book you may find!!!!
* Google Style Guides ([C](https://www.rediffmail.com/cgi-bin/red.cgi?red=https%3A%2F%2Fgoogle%2Egithub%2Eio%2Fstyleguide%2Fcppguide%2Ehtml%20BWxYagR1BysKZldt&isImage=0&BlockImage=0&rediffng=0&rogue=8deb96bb671ed153899af9c5fd1e2aacfa052a6b&rdf=U2sDc1J7VSAGMgYrV3EEI1VuA2oNP1IjAy9dMVFr), [Python](https://www.rediffmail.com/cgi-bin/red.cgi?red=https%3A%2F%2Fgoogle%2Egithub%2Eio%2Fstyleguide%2Fpyguide%2Ehtml%20UzpcblAhUX0NYVxm&isImage=0&BlockImage=0&rediffng=0&rogue=08e2ad958467ab8810447e5d5b5a68f2e5b01480&rdf=UGgEdAYvBHEGMgQpAScGIVdsVTwAMlcmBCgPYwY8), [Java](https://www.rediffmail.com/cgi-bin/red.cgi?red=https%3A%2F%2Fgoogle%2Egithub%2Eio%2Fstyleguide%2Fjavaguide%2Ehtml%2FBCJWcVBrVD0MPgBxWXVeMlBq&isImage=0&BlockImage=0&rediffng=0&rogue=1fe77d2ba9b7bb4e93c88fe4d52a25faee4beab8&rdf=AjoCcgUsViMBNVZ7VnABJltgB24BM1koWXUKZgA6); [Android](https://www.rediffmail.com/cgi-bin/red.cgi?red=http%3A%2F%2Fsource%2Eandroid%2Ecom%2Fsource%2Fcode%25C2%25ADstyle%2Ehtml&isImage=0&BlockImage=0&rediffng=0&rogue=b1414f059f74fbb432b63e59b6a0036da6842581&rdf=VW0JeQkgXisHM1J/VHIKLVtgA2pbaQJzAy8NYV1n), [Javascript](https://www.rediffmail.com/cgi-bin/red.cgi?red=https%3A%2F%2Fgoogle%2Egithub%2Eio%2Fstyleguide%2Fjavascriptguide%2Exml&isImage=0&BlockImage=0&rediffng=0&rogue=56da0fa3880ed0eee73b6f52720c6fe384b9d3c8&rdf=UWkIeAkgAnddaV1wBCILLFNoUzoMPlIjUn5ZNQc9" \t "_blank))
* [gitHub link](https://www.rediffmail.com/cgi-bin/red.cgi?red=https%3A%2F%2Fgithub%2Ecom%2Fjwasham%2Fcoding%2Dinterview%2Duniversity%2Fblob%2Fmaster%2FREADME%2Emd%23google%2Dinterview%2Duniversity&isImage=0&BlockImage=0&rediffng=0&rogue=150b945911784e3b4c171bc4863aaf7f416e953f&rdf=XmZUJFV8UidcaAEsBCJTdFFqA2oLOQJzACxcMFdt) on Computer Science (CS) fundamentals which does a good job as checklist on what you should master in order to prepare for coding at Google.
* Practise [writing a code in Google Doc](https://www.rediffmail.com/cgi-bin/red.cgi?red=https%3A%2F%2Fwww%2Equora%2Ecom%2FWhat%2Dare%2Dsome%2Dtips%2Dfor%2Dpracticing%2Dcoding%2Don%2DGoogle%2Ddocs%2Dfor%2Da%2Dphone%2Dscreen&isImage=0&BlockImage=0&rediffng=0&rogue=abc0018696b84161e9254357f69555e1263af7cc&rdf=UGhWJgIrA3YCNlJ/BSNTdAA7Vj9cblIjV3sJZVxm)

**PLEASE NOTE:** There will be no compiler or editor available, the code has to be written on a Google Doc (which will be shared in the email by the Recruitment / Interview Coordinator)

**Resource 4: General Interview Prep**

* [GeeksforGeeks](https://www.rediffmail.com/cgi-bin/red.cgi?red=http%3A%2F%2Fwww%2Egeeksforgeeks%2Eorg%2F&isImage=0&BlockImage=0&rediffng=0&rogue=dac5820f9245145092c1246fade9752b31ade7ed&rdf=ADhTIwkgViNUYFR5VHIKLVBrUjtfbVcmACwNYQM5)
* [High Scalability](https://www.rediffmail.com/cgi-bin/red.cgi?red=http%3A%2F%2Fhighscalability%2Esquarespace%2Ecom%2F%20AyVTdFFqXjdbaVYnUn4MYAM5%20BXBRZQcqBSMBJgI5Xjddb1YnWXVeMgQ&isImage=0&BlockImage=0&rediffng=0&rogue=1677e1f435258a00ad47bf9dfc1977634e47bd1f&rdf=VGwAcAMqBXAGMlxxBCIAJwI5BWwMPlgpUX0PY1Bq)
* [Interview Puzzles](https://www.rediffmail.com/cgi-bin/red.cgi?red=http%3A%2F%2Fwww%2Egeeksforgeeks%2Eorg%2Fcategory%2Fpuzzles%2F&isImage=0&BlockImage=0&rediffng=0&rogue=5daf47b4a44b1d8eb2a07f097fd3712cebfe45d1&rdf=Vm5RIVB5VyJcaF1wASdRdlVuUjsIOlAhBysPY11n)
* [Practice Problems - Google Focussed](https://www.rediffmail.com/cgi-bin/red.cgi?red=http%3A%2F%2Fpractice%2Egeeksforgeeks%2Eorg%2Fcompany%2FGoogle&isImage=0&BlockImage=0&rediffng=0&rogue=c9dffed91129712098a04c9de5a8fe8a65788fcb&rdf=XmYEdFV8XyoBNQAtBiAGIQY9UjsMPlYnBSlcMAA6)

In addition to the above:

1. You would want to visit [www.topcoder.com](https://www.rediffmail.com/cgi-bin/red.cgi?red=http%3A%2F%2Fwww%2Etopcoder%2Ecom%2F%2FVHIKLVtgA2pbaQJzAy8NYV1n&isImage=0&BlockImage=0&rediffng=0&rogue=69bb4b3dacc84895e19e97630a1b7504f5354261&rdf=VW0GdgUsUicFMVN+CiwGIQU+XzYBMwR1ACwAbAM5) to familiarize yourself with the overall approach to design, algorithm creation, and implementation (coding) of programming based problems.
2. Read up on all the latest news about your preferred programming language(s), If you say you're an expert in Java, you'll be expected to know what's new in the field.
3. Most of your interviews will be technical‐but be ready to provide info about your past experience and major accomplishments. Make sure you can explain the architecture of previous projects.
4. Get in a creative 'problem solving' mood. Spend some time everyday doing Sudoku, word puzzles - anything to exercise that part of your brain.

**During the interview:**

Ask yourself!

* Do you feel confident with CS fundamentals?
* Do you listen well?
* Do you know what to ask to clarify the questions?
* Can you find the optimal solution of the complicated coding/algorithm problems, present it in a very efficient/clean coding (no/less bug), and share your thoughts logically?
* Is your problem solving and coding speedy and efficient with your profound knowledge in CS fundamentals?
* Have you covered off edge cases?

[How to: Prepare for a Google Engineering Interview](https://www.rediffmail.com/cgi-bin/red.cgi?red=https%3A%2F%2Fwww%2Eyoutube%2Ecom%2Fwatch%3Fv%3Dko%2DKkSmp%2DLk%20UCUANAYrV3EAJwU%20VTxYalEgBysBbQE7&isImage=0&BlockImage=0&rediffng=0&rogue=b065c3821219940a60cffa7004cc0b329dc9a6db&rdf=Vm4AcAcuAHVRZVd6V3ELLFJpVj8LOQBxWXVcMFZs)

[How to: Work at Google — How We Hire](https://www.rediffmail.com/cgi-bin/red.cgi?red=https%3A%2F%2Fwww%2Eyoutube%2Ecom%2Fwatch%3Fv%3Dk%2DbaHBzWe4k%26amp%3Bt%3D94s&isImage=0&BlockImage=0&rediffng=0&rogue=67d8e65269f5e4e39cce5e84d92cf59fbfdd5890&rdf=U2sHdwIrUSRUYFZ7BiAHIFZtUThcbgd2VHhaNl1n)

[How to: Work at Google — Example Coding/Engineering Interview](https://www.rediffmail.com/cgi-bin/red.cgi?red=https%3A%2F%2Fwww%2Eyoutube%2Ecom%2Fwatch%3Fv%3DXKu%5FSEDAykw%20UiddaVR5U3UGIVNoUjtdb1cmWXUNYVFr&isImage=0&BlockImage=0&rediffng=0&rogue=030da31d8cff063a9ee012aa110df4615f75c8dd&rdf=BDxWJgkgVCFWYlxxBCILLFVuAGkOPABxUn5aNgc9)

Please feel free to ask me any questions via email.  

Wishing you **ALL THE BEST**!