Debugging Session Summary

Compilation Errors :-

* Errors at the time of compilation
* Caused by incorrect syntax

Common Compilation Errors :-

* Missing semicolon (;)
* Unbalanced parenthesis
* Incorrect name (typing mistake)
* Incorrect function parameters (like max(int, long long))

Runtime Errors :-

* Errors at the time of execution of code
* Cause because of unhandled exceptions

Common Runtime Errors :-

* accessing out of bounds
* integer overflow
* division by 0

Time Limit Exceeded :-

* Execution of code takes more time than the time limit
* usually because of infinite loops or inefficient algorithms.

Common TLE Mistakes :-

* reverse for loop
* binary search
* two pointers
* forgetting to empty queue/stack/pq

Debugging Template:-

* Why use it
* template link

Wrong Answers :-

* Incorrect output
* usually logical issue, some silly implementation mistake or missing some edge case

Fixing WAs :-

* printing arrays and variables
* Dry run
* Example on DP
* Example for Graphs

Finding WA Testcase :-

* submission’s result
* [Ritik Jain’s Tweet](https://www.google.com/url?q=https://www.google.com/url?q=https://twitter.com/Ritikjainrj18/status/1557193150166454274?s%3D19&amp;sa=D&amp;source=editors&amp;ust=1707590757123114&amp;usg=AOvVaw1U53e6MC2ZtqVtL7AlrZRQ&sa=D&source=docs&ust=1707590757138442&usg=AOvVaw1-qUMoaBUFJ6yc5i690ABL)
* [Striver](https://www.google.com/url?q=https://www.google.com/url?q=https://www.youtube.com/watch?v%3DiYxjjMyonvk%26ab_channel%3DCodeBeyond&amp;sa=D&amp;source=editors&amp;ust=1707590757123533&amp;usg=AOvVaw2ksdoCkbvUd3fPwDMbLEaK&sa=D&source=docs&ust=1707590757138624&usg=AOvVaw3NWVO8lMFPA6_OL9sEMs52)
* [Kartik Arora](https://www.google.com/url?q=https://www.google.com/url?q=https://www.youtube.com/watch?v%3D8wBu5wBDlWY%26ab_channel%3DKartikArora&amp;sa=D&amp;source=editors&amp;ust=1707590757123806&amp;usg=AOvVaw3FXRUrFImGGYqpqYmUU2Ng&sa=D&source=docs&ust=1707590757138723&usg=AOvVaw0XjWhnsqXvtUoqOLU4vnfP)

What if code is still not debugged giving WA :-

* Editorial
* Other’s code
* Coding buddies
* Ask to seniors / Raise a query