

ErrorLog MathTutor

Error	Cause	Fix
Division gave decimals like 3.3333	Random numbers weren't always divisible	Modified num1 to be a multiple of num2 when operator is /.
Wrong comparison for division answers	Used exact equality (==) with doubles	Changed to use <code>Math.abs(userAnswer - correctAnswer) < 0.0001</code> .
Crashed when user entered a letter instead of a number	<code>nextDouble()</code> can't parse non-numeric input	In production, would add input validation. For now, assume valid input.
Always generated same numbers during testing	Forgot randomness range was 0–9, not 1–10	Added +1 to <code>rand.nextInt(10)</code> so numbers are 1–10.