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| **Code Review Checklist** | |
| **General** | |
| · Does the code work? Does it perform its intended function, the logic is correct etc. | 代码可以正常运行。基本实现了用户需求中的所有功能，但是只能通过一个参数进行范围的控制。 |
| · Is all the code easily understood? | 代码结构划分较为清晰。通过不同的方法实现功能，代码中中缀转后缀和对比答案比较难懂。 |
| · Does it conform to your agreed coding conventions? These will usually cover location of braces, variable and function names, line length, indentations, formatting, and comments. | 符合 |
| · Is there any redundant or duplicate code? | 已经模块化。 |
| · Is the code as modular as possible? | 代码已经通过不同方法划分了算式的随机生成、中缀转后缀计算答案、对比答案等功能。 |
| · Can any global variables be replaced? | 暂未发现。 |
| · Is there any commented out code? | 有，部分算法参考了资料。 |
| · Do loops have a set length and correct termination conditions? | 有。 |
| · Can any of the code be replaced with library functions? | 所有能用库函数实现的均已使用库函数。 |
| · Can any logging or debugging code be removed? | 调试用代码已经注释。 |
| **Security** | |
| · Are all data inputs checked (for the correct type, length, format, and range) and encoded? | 没有做出过于严谨的限制。 |
| · Where third-party utilities are used, are returning errors being caught? | 未使用第三方工具；有对异常情况进行处理。 |
| · Are output values checked and encoded? | 题目答案进行了是否为带分数和是否为负数的审查，并且不将不符合的式子输入文档，而是进行新一次随机数的生成。 |
| **Documentation** | |
| · Do comments exist and describe the intent of the code? | 是的 |
| · Are all functions commented? | 已注释。 |
| · Is any unusual behavior or edge-case handling described? | 未对边缘情况进行注释说明，程序注释量较少。 |
| · Is the use and function of third-party libraries documented? | 未特意进行说明。 |
| · Are data structures and units of measurement explained? | 部分进行了解释。 |
| · Is there any incomplete code? If so, should it be removed or flagged with a suitable marker like 'TODO'? | 无未完成的代码。 |
| **Testing** | |
| · Is the code testable? ie don't add too many or hide dependencies, unable to initialize objects, test frameworks can use methods etc. | 代码可以测试，可以初始化对象，测试框架可以使用方法 |
| · Do tests exist and are they comprehensive? ie has at least your agreed on code coverage. | 测试存在且较为全面 |
| · Do unit tests actually test that the code is performing the intended functionality? | 是的 |
| · Are arrays checked for 'out- of-bound' errors? | 采用try-catch来避免数组越界 |
| · Could any test code be replaced with the use of an existing API? | 可以 |