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SFT221NFF

Main.c

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| Line Containing Bug | Corrected Version | What Was Wrong | Debug Tool/Technique |
| Line 8-9 : char testStr[] = { "This is a\n string with embedded newline  character and \n12345 numbers inside it as well 67890" }; | char testStr[] = { "This is a\nstring with embedded newline character and \n12345 numbers inside it as well 67890" }; | Compiler was giving syntax error. Brought the second line of quote to the same line as variable. | Compiler Error Messages |

Stringhelp.c

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| Line Containing Bug | Corrected Version | What Was Wrong | Debug Tool/Technique |
| line 16  int nextWhite(const char\* str) function | return (result < 0) ? i : result; | The original condition unnecessarily checked for space and tab characters even though isspace() already covers these checks. | Code Review and Assertions |
| Line 21  int isNumber(const char\* str, const int len) result.lineStarts[result.numLines] = i + 1;  }  i++;  } function | for (i = 0; i < len && result; i++) | The original loop used result as the loop variable incorrectly. Changed to use i as the loop index. | Code Review and Assertions |
| Line 44  struct StringIndex indexString(const char\* str) function | if (str[i] == '\n') | The condition to check for the newline character was incorrect. It was wrongly checking for a null terminator. | Code Review and Assertions |
| Line 33  struct StringIndex indexString(const char\* str) function | //char buf[MAX\_WORD\_SIZE + 1] = { 0 }; | The buf array was not used anywhere in the function. | Code Review and Assertions |
| Line 103  void getNumber(char word[], const struct StringIndex\* idx, int  numberNum) function | word[i] = idx->str[start + i]; | Incorrect array indexing was used to copy the number from the string. | Code Review and Assertions |