|  |
| --- |
| #include <stdio.h> |
|  | #include <stdlib.h> |
|  | #include <string.h> |
|  |  |
|  | #define MAX\_LINE\_LENGTH 1024 |
|  |  |
|  | int main() { |
|  | FILE \*input\_file = fopen("input.txt", "r"); |
|  | FILE \*output\_file = fopen("output.txt", "w"); |
|  |  |
|  | if (input\_file == NULL) { |
|  | printf("Error: Failed to open input file\n"); |
|  | exit(1); |
|  | } |
|  |  |
|  | if (output\_file == NULL) { |
|  | printf("Error: Failed to open output file\n"); |
|  | exit(1); |
|  | } |
|  |  |
|  | char line[MAX\_LINE\_LENGTH]; |
|  | while (fgets(line, MAX\_LINE\_LENGTH, input\_file) != NULL) { |
|  | char \*occurrence = strstr(line, "red"); |
|  | while (occurrence != NULL) { |
|  | int position = occurrence - line; |
|  | strncpy(line + position, "blue", 4); |
|  | occurrence = strstr(line + position + 4, "red"); |
|  | } |
|  | fputs(line, output\_file); |
|  | } |
|  |  |
|  | fclose(input\_file); |
|  | fclose(output\_file); |
|  |  |
|  | return 0; |
|  | } |

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