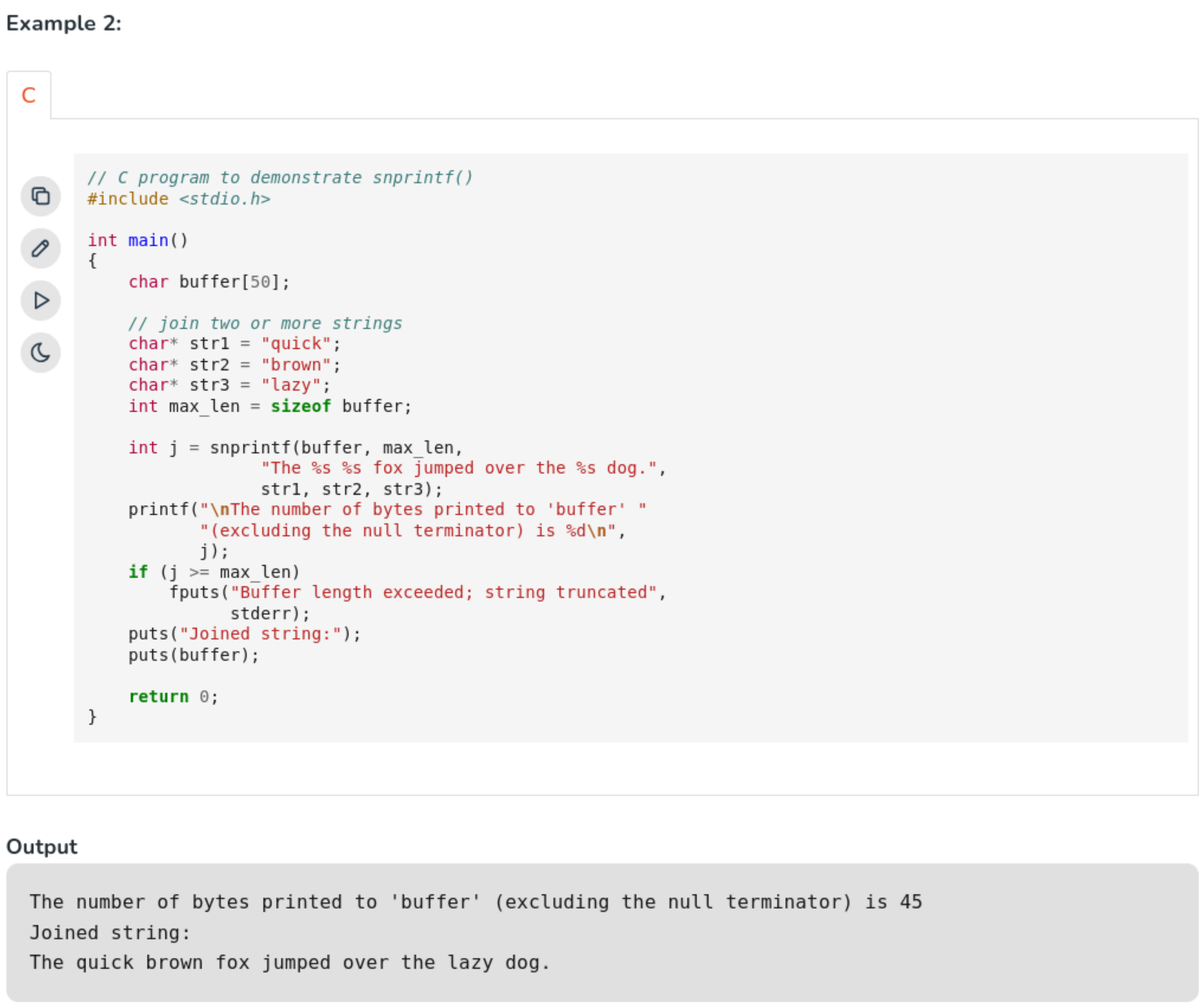


Example 2:

C

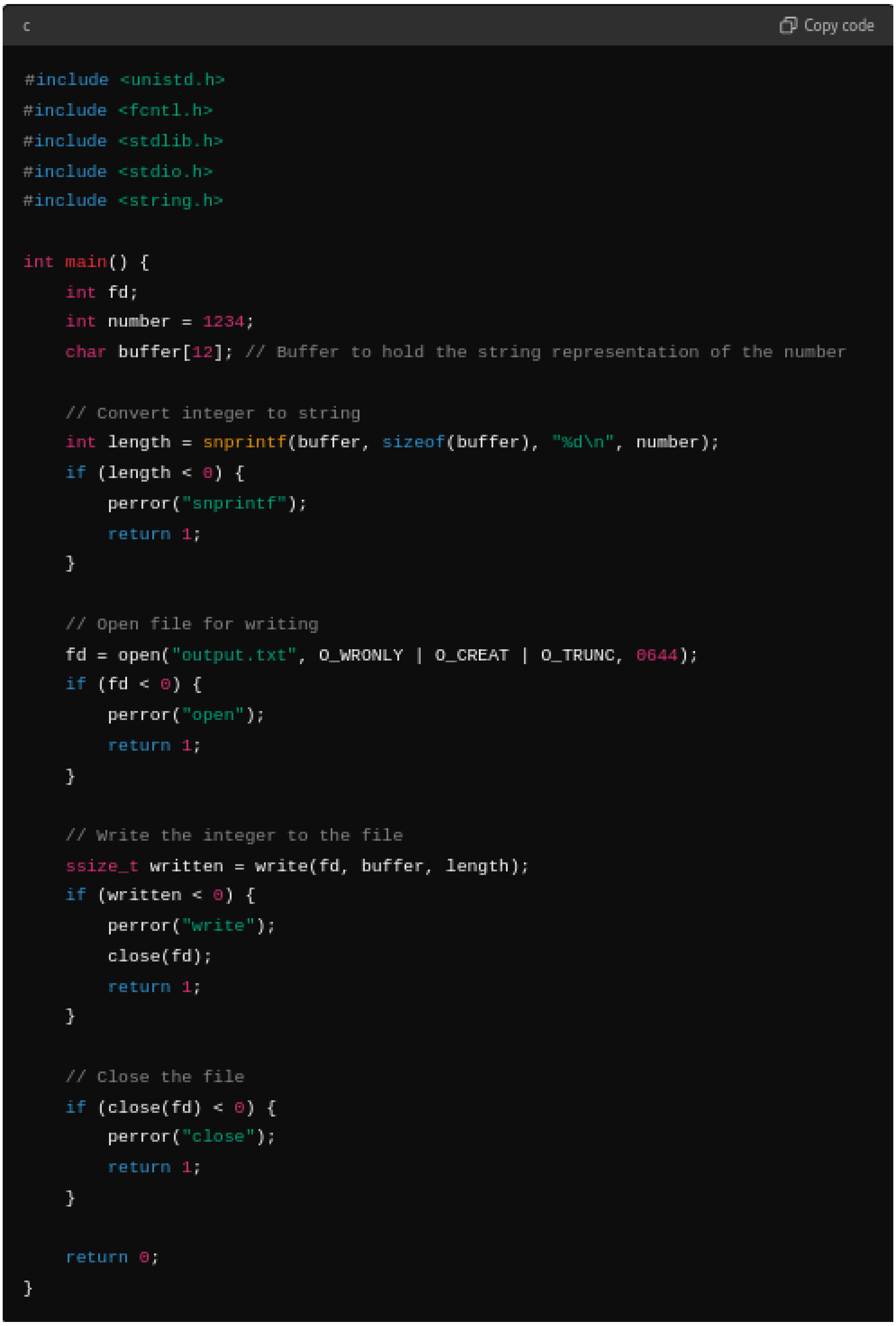
```c
// C program to demonstrate snprintf()
#include <stdio.h>

int main()
{
    char buffer[50];

    // join two or more strings
    char* str1 = "quick";
    char* str2 = "brown";
    char* str3 = "lazy";
    int max_len = sizeof buffer;

    int j = snprintf(buffer, max_len,
             "The %s %s fox jumped over the %s dog.",
             str1, str2, str3);
    printf("\nThe number of bytes printed to 'buffer' "
           "(excluding the null terminator) is %d\n",
           j);
    if (j >= max_len)
        fputs("Buffer length exceeded; string truncated",
              stderr);
    puts("Joined string:");
    puts(buffer);

    return 0;
}
```

Output

```
The number of bytes printed to 'buffer' (excluding the null terminator) is 45
Joined string:
The quick brown fox jumped over the lazy dog.
```

Gfg: https://www.geeksforgeeks.org/snprintf-c-library/

Ai:



```c
#include <unistd.h>
#include <fcntl.h>
#include <stdlib.h>
#include <stdio.h>
#include <string.h>

int main() {
    int fd;
    int number = 1234;
    char buffer[12]; // Buffer to hold the string representation of the number

    // Convert integer to string
    int length = snprintf(buffer, sizeof(buffer), "%d\n", number);
    if (length < 0) {
        perror("snprintf");
        return 1;
    }

    // Open file for writing
    fd = open("output.txt", O_WRONLY | O_CREAT | O_TRUNC, 0644);
    if (fd < 0) {
        perror("open");
        return 1;
    }

    // Write the integer to the file
    ssize_t written = write(fd, buffer, length);
    if (written < 0) {
        perror("write");
        close(fd);
        return 1;
    }

    // Close the file
    if (close(fd) < 0) {
        perror("close");
        return 1;
    }

    return 0;
}
```

https://chatgpt.com/share/8f398e20-6b00-48ea-bb1e-766215baf035