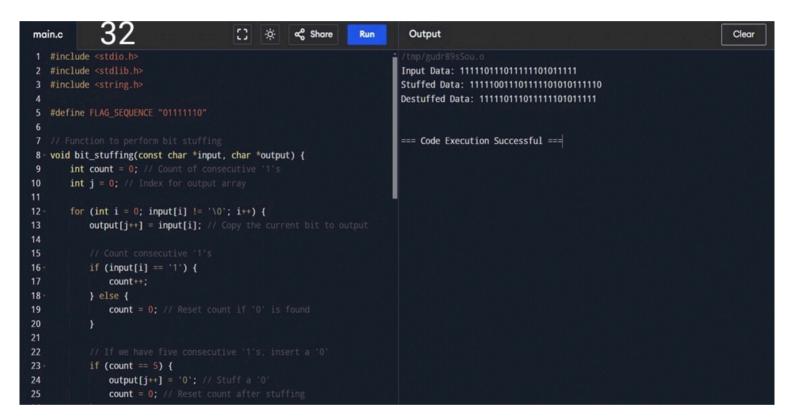
```
∞ Share
                                                         C) *
                                                                                            Run
                                                                                                                                                                                                    Clear
                                                                                                         Output
 main.c
                  31
1 #include <stdio.h>
2 #include <stdlib.h>
3 #include <string.h>
4 #include <arpa/inet.h>
5 #include <netinet/if_ether.h>
6 #include <sys/socket.h>
7 #include <unistd.h>
                                                                                                       IP: 192.168.1.1, MAC: 00:11:22:33:44:55
                                                                                                        === Code Execution Successful ===
     typedef struct {
          char ip[INET_ADDRSTRLEN];
          unsigned char mac[ETH_ALEN];
14 } arp_cache_entry;
16 arp_cache_entry arp_cache[CACHE_SIZE];
18 · void add_to_cache(const char *ip, unsigned char *mac) { 19 · for (int i = 0; i < CACHE_SIZE; i++) {
                if (strlen(arp_cache[i].ip) == 0) {
20
21
22
                     strcpy(arp_cache[i].ip, ip);
                     memcpy(arp_cache[i].mac, mac, ETH_ALEN);
23
24
```



```
33
                                     [] ( a<sub>0</sub> Share Run
main.c
                                                                       Output
1 #include <stdio.h>
                                                                      Server is listening on port 8080...
2 #include <stdlib.h>
3 #include <string.h>
4 #include <arpa/inet.h>
5 #include <unistd.h>
6 #define PORT 8080
7 #define BUFFER_SIZE 1024
8
9 - int main() (
    int server_fd, new_socket;
10
11
       struct sockaddr_in address:
12
      int addrlen - sizeof(address);
13
      char buffer[BUFFER_SIZE] - {0};
       FILE "received_file;
14
15
      int bytes_received;
16
       // Create socket file descriptor
17 -
     if ((server_fd = socket(AF_INET, SOCK_STREAM, 0)) == 0) {
18 perror("Socket failed"):
19 exit(EXIT_FAILURE):
20
     }
21
      // Set address structure
                                            Search
```

