

main.c



Share

Run

Output

Clear

```
1 #include <stdio.h>
2 #include <string.h>
3
4 // Function to check for suspicious patterns
5 int detect_intrusion(const char *packet) {
6     // Define some simple suspicious patterns
7     const char *blacklist[] = {"malware", "attack", "exploit",
8                                "sql_injection"};
9     int i;
10
11     for (i = 0; i < 4; i++) {
12         if (strstr(packet, blacklist[i]) != NULL) {
13             return 1; // Intrusion detected
14         }
15     }
16     return 0; // Safe
17 }
18
19 int main() {
20     char packet[256];
```

```
=== Simple Network Intrusion Detection System (NIDS) ===
```

```
Enter network packet data (or type 'exit' to quit): CodeAlpha
```

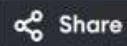
```
[OK] Packet is safe: CodeAlpha
```

```
Enter network packet data (or type 'exit' to quit): exit
```

```
Exiting NIDS...
```

```
=== Code Execution Successful ===
```

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Output

Clear

```
19 char packet[256];
20
21 printf("=== Simple Network Intrusion Detection System (NIDS)
    ===\n");
22
23 while (1) {
24     printf("\nEnter network packet data (or type 'exit' to
    quit): ");
25     fgets(packet, sizeof(packet), stdin);
26
27     // Remove newline character
28     packet[strcspn(packet, "\n")] = 0;
29
30     if (strcmp(packet, "exit") == 0) {
31         printf("Exiting NIDS...\n");
32         break;
33     }
34
35     if (detect_intrusion(packet)) {
36         printf("[ALERT] Suspicious activity detected in packet
```

```
^ === Simple Network Intrusion Detection System (NIDS) ===
```

```
Enter network packet data (or type 'exit' to quit): CodeAlpha
[OK] Packet is safe: CodeAlpha
```

```
Enter network packet data (or type 'exit' to quit): exit
Exiting NIDS...
```

```
=== Code Execution Successful ===
```

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```
25 fgets(packet, sizeof(packet), stdin);
26
27 // Remove newline character
28 packet[strcspn(packet, "\n")] = 0;
29
30 if (strcmp(packet, "exit") == 0) {
31     printf("Exiting NIDS...\n");
32     break;
33 }
34
35 if (detect_intrusion(packet)) {
36     printf("[ALERT] Suspicious activity detected in packet
37         : %s\n", packet);
38 } else {
39     printf("[OK] Packet is safe: %s\n", packet);
40 }
41
42 return 0;
43 }
```

=== Simple Network Intrusion Detection System (NIDS) ===

Enter network packet data (or type 'exit' to quit): CodeAlpha
[OK] Packet is safe: CodeAlpha

Enter network packet data (or type 'exit' to quit): exit
Exiting NIDS...

=== Code Execution Successful ===