

main.c



Share

Run

Output

```
1 #include <stdio.h>
2 #include <stdlib.h>
3 #include <string.h>
4 #include <unistd.h>
5 #include <sys/socket.h>
6 #include <netinet/in.h>
7 #include <time.h>
8
9 #define PORT 8080
10 #define BUFFER_SIZE 256
11
12 int main() {
13     int server_fd, new_socket;
14     struct sockaddr_in address;
15     int opt = 1;
16     int addrlen = sizeof(address);
17     char buffer[BUFFER_SIZE];
18
19     if ((server_fd = socket(AF_INET, SOCK_STREAM, 0)) == 0) {
20         perror("Socket failed");
21         exit(EXIT_FAILURE);
22     }
23
24     if (setsockopt(server_fd, SOL_SOCKET, SO_REUSEADDR, &opt, sizeof(opt))) {
25         perror("Setsockopt failed");
26         exit(EXIT_FAILURE);
27     }
28
29     address.sin_family = AF_INET;
30     address.sin_addr.s_addr = INADDR_ANY; // Listen on all interfaces
31     address.sin_port = htons(PORT);       // Convert port to network byte order
```

^ /tmp/BhtAnbCHAD.o

Date and Time Server is listening on port 8080

main.c



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Output

Clear

```
1 #include <stdio.h>
2 #include <stdlib.h>
3 #include <string.h>
4 #include <unistd.h>
5 #include <arpa/inet.h>
6 #define PORT 5353
7 #define BUFFER_SIZE 512
8 #define DOMAIN "example.com"
9 #define IP_ADDRESS "93.184.216.34"
10
11 int main() {
12     int sockfd;
13     struct sockaddr_in server_addr, client_addr;
14     socklen_t addr_len = sizeof(client_addr);
15     char buffer[BUFFER_SIZE];
16
17     if ((sockfd = socket(AF_INET, SOCK_DGRAM, 0)) < 0) {
18         perror("Socket creation failed");
19         exit(EXIT_FAILURE);
20     }
21
22     memset(&server_addr, 0, sizeof(server_addr));
23     server_addr.sin_family = AF_INET;
24     server_addr.sin_addr.s_addr = INADDR_ANY;
25     server_addr.sin_port = htons(PORT);
26 }
```

/tmp/g3xGTGs25F.o
DNS Server is listening on port 5353

main.c

Share

Run

Output

Clear

```
1 #include <stdio.h>
2 #include <stdlib.h>
3 #include <string.h>
4 #include <unistd.h>
5 #include <arpa/inet.h>
6
7 #define SERVER_IP "127.0.0.1"
8 #define PORT 5353
9 #define DOMAIN "google.com"
10 #define BUFFER_SIZE 512
11
12 int main() {
13     int sockfd;
14     struct sockaddr_in server_addr;
15     char buffer[BUFFER_SIZE];
16
17     if ((sockfd = socket(AF_INET, SOCK_DGRAM, 0)) < 0) {
18         perror("Socket creation failed");
19         exit(EXIT_FAILURE);
20     }
21
22     memset(&server_addr, 0, sizeof(server_addr));
23     server_addr.sin_family = AF_INET;
24     server_addr.sin_port = htons(PORT);
25     inet_pton(AF_INET, SERVER_IP, &server_addr.sin_addr);
```

/tmp/p6LHscZqSh.o
Sent query for: google.com

main.c	<div><div></div><div></div><div>Share</div><div>Run</div></div>	Output	Clear
112	qinfo->qclass = htons(1); // Class IN	/tmp/NVEDkntiaC.o	
113		Usage: /tmp/NVEDkntiaC.o <hostname>	
114	// Send the query		
115	if (sendto(sock, (char *)buf, sizeof(struct DNS_HEADER) + (strlen((const char *)qname) + 1) + sizeof(struct QUESTION), 0, (struct sockaddr *)&dest, sizeof(dest)) < 0) {	=== Code Exited With Errors ===	
116	perror("Query sending failed");		
117	} else {		
118	// Receive the response		
119	int i = sizeof dest;		
120	if (recvfrom(sock, (char *)buf, 65536, 0, (struct sockaddr *)&dest, (socklen_t *)&i) < 0) {		
121	perror("Response reception failed");		
122	} else {		
123	dns = (struct DNS_HEADER *) buf;		
124			
125	// Move to the answer section		
126	unsigned char *reader = &buf[sizeof(struct DNS_HEADER) + (strlen((const char *)qname) + 1) + sizeof(struct QUESTION)];		
127	printf("Resolved IP Addresses:\n");		
128			
129	// Read each answer record		
130	for (i = 0; i < ntohs(dns->ans_count); i++) {		
131	struct RES_RECORD answer;		
132	answer.name = reader;		