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cliente.c

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```
#include <sys/socket.h>
#include <sys/types.h>
#include <arpa/inet.h>
#include <netinet/in.h>
#include <stdio.h>
#include <netdb.h>
#include <string.h>
#include <errno.h>
#include <string.h>
#include <stdlib.h>
#include <unistd.h>
#include "errorHandling.c"

#define MAXLINE 4096

void sendCommand(int sockfd, const char* cmd) {
    write(sockfd, cmd, strlen(cmd));
}

void echoServerAnswer(int sockfd) {
    ssize_t n;
    char recvline[MAXLINE + 1] = "";
    //leia MAXLINE bytes do socket
    n = Read(sockfd, recvline, MAXLINE);
    //escreva na tela
    if (n == 0) return;
    printf("server answer:\n");
    Fputs(recvline, stdout);
}

char exitCommand(const char* line) {
    char ret = (strcmp(line, "exit") == 0) ∨
               (strcmp(line, "bye") == 0) ∨
               (strcmp(line, "sair") == 0) ∨
               (strcmp(line, "quit") == 0);
    return ret;
}

void removeEnter(char *line) {
    if (line[strlen(line) - 1] == '\n') line[strlen(line) - 1] = '\0';
}

int main(int argc, char **argv) {
    int sockfd;
    char error[MAXLINE + 1];
    struct sockaddr_in servaddr;

    //trate os argumentos
    if (argc != 3) {
        //usage
        strcpy(error, "uso: ");
        strcat(error, argv[0]);
        strcat(error, " <IPaddress> <Porta>");
        perror(error);
        exit(EXIT_FAILURE);
    }

    //crie um socket para comunicacao, e aborte em caso de erro.
    sockfd = Socket(AF_INET, SOCK_STREAM, 0);
    //parametros de socket
    bzero(&servaddr, sizeof(servaddr)); //inicialize com zeros
    servaddr.sin_family = AF_INET; //servidor de enderecos IPv4
```

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```
servaddr.sin_port = htons(atoi(argv[2])); //Porta como argumento
//converta o endereco IP de texto para binario. Reporte erros
Inet_pton(AF_INET, argv[1], &servaddr.sin_addr);

//conecte o socket com o endereco passado por argumento
Connect(sockfd, (struct sockaddr *) &servaddr, sizeof(servaddr));

struct sockaddr_in getsock;
socklen_t addrlen = sizeof(struct sockaddr);
//obtenha o endereco com o qual estamos comunicando
Getsockname(sockfd, (struct sockaddr*) &getsock, &addrlen);
//imprima o endereco no stdout
printf("Connected to server: %s:%d\n",
       inet_ntoa(getsock.sin_addr), ntohs(getsock.sin_port));

ssize_t r;
do {
    char *line = NULL;
    size_t len = 0;

    r = getline(&line, &len, stdin);
    removeEnter(line);
    if (r > 0) {
        //printf("local %zu bytes input:%s", r, line);
        printf("local input:%s\n", line);
        if (exitCommand(line)) {
            printf("Encerrando conexao com o servidor...\n");
            r = -1;
        } else if (strcmp(line, "\n") != 0) {
            sendCommand(sockfd, line);
            echoServerAnswer(sockfd);
        }
    }
} while(r != -1);
close(sockfd);

return 0;
}
```