```
#define WINSOCK DEPRECATED NO WARNINGS
#include <iostream>
#include <winsock2.h>
#include <string>
#include <thread>
#pragma comment(lib, "Ws2 32.lib")
int const MAX SOCKETS = 5;
SOCKET Aux Socket;
SOCKET ClientSockets[MAX SOCKETS + 1] = { SOCKET ERROR };
bool Active Sockets[MAX SOCKETS + 1] = { false };
int find_available_socket(void) {
    int socket_number = MAX_SOCKETS;
    for (int i = 0; i < MAX SOCKETS; i++) {</pre>
        if (!Active Sockets[i]) {
            socket_number = i;
    return socket number;
void Run(int Index) {
    std::cout << "Thread Started at Index " << Index << std::endl;</pre>
    Active_Sockets[Index] = true;
    while (true) {
        char RxBuffer[128] = { };
        memset(RxBuffer, 0, sizeof(RxBuffer));
        recv(ClientSockets[Index], RxBuffer, sizeof(RxBuffer), 0);
        if (sizeof(RxBuffer) != 0);
            std::cout << "From Thread " << Index << " : ";
            std::cout << RxBuffer << std::endl;</pre>
            send(ClientSockets[Index], "Ok", sizeof("Ok"), 0);
            if (std::string(RxBuffer) == "[q]")
                break;
    std::cout << "Closing Connection" << std::endl;</pre>
    closesocket(ClientSockets[Index]);
    Active_Sockets[Index] = false;
int main(int argc, char* argv[]) {
    int Socket Number;
    WSADATA wsaData;
    if (WSAStartup(MAKEWORD(2, 2), &wsaData) != 0) {
        std::cout << "Could not start DLLs" << std::endl;</pre>
        return 0:
    SOCKET ListenSocket:
    ListenSocket = socket(AF_INET, SOCK_STREAM, IPPROTO_TCP);
    if (ListenSocket == INVALID SOCKET) {
        std::cout << "Could not create socket" << std::endl;
        WSACleanup();
        return 0;
    struct sockaddr_in SvrAddr;
    SvrAddr.sin_family = AF_INET;
    SvrAddr.sin addr.s addr = inet addr("127.0.0.1");
    SvrAddr.sin_port = htons(27000);
    if (bind(ListenSocket, (struct sockaddr*) &SvrAddr,
        sizeof(SvrAddr)) == SOCKET ERROR) {
        std::cout << "Could not bind socket to port" << std::endl;</pre>
        closesocket(ListenSocket);
        WSACleanup();
        return 0;
    if (listen(ListenSocket, 1) == SOCKET_ERROR) {
        std::cout << "Could not start to listen" << std::endl;</pre>
        closesocket(ListenSocket);
        WSACleanup();
        return 0;
    while (true) {
        std::cout << "Ready to accept a connection" << std::endl;</pre>
        Aux Socket = accept(ListenSocket, NULL, NULL);
        if (Aux_Socket == SOCKET_ERROR) {
            return 0;
```