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// C0:A8:01:01

#include <bits/stdc++.h>

using namespace std;


// Convert a hexadecimal string to an integer
int hexToDecimal(const std::string &hex) {
    std::stringstream ss;
    ss << std::hex << hex;

    int decimal;
    ss >> decimal;

    return decimal;
}

// Convert an integer to binary string
string decimalToBinary(int decimal) {
    string binary;

    while (decimal > 0) {
        binary = (decimal % 2 == 0 ? "0" : "1") + binary;
        decimal /= 2;
    }

    // Pad with zeros to make it 8 bits
    while (binary.length() < 8) {
        binary = "0" + binary;
    }

    return binary;
}

int main() {
    cout<<"Enter Hexadecimal IP address: ";

    string hexIP = "";

    cin>>hexIP;

    istringstream hexStream(hexIP);

```

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string segment;

vector<int> decimals;

while (std::getline(hexStream, segment, ':')) {
    decimals.push_back(hexToDecimal(segment));
}

std::cout << "Decimal Dotted IP: ";
for (size_t i = 0; i < decimals.size(); ++i) {
    std::cout << decimals[i];
    if (i < decimals.size() - 1) {
        std::cout << ".";
    }
}

std::cout << std::endl;

// Convert and print binary IP
std::cout << "Binary IP: ";
for (size_t i = 0; i < decimals.size(); ++i) {
    std::cout << decimalToBinary(decimals[i]);
    if (i < decimals.size() - 1) {
        std::cout << " ";
    }
}

std::cout << std::endl;

return 0;
}
```

**Output:**

Enter Hexadecimal IP address: C0:A8:01:01

Decimal Dotted IP: 192.168.1.1

Binary IP: 11000000 10101000 00000001 00000001