

```

#include <iostream>

#include <bitset>

#include <iomanip>

int main() {

    int decimalNumbers[] = {0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18,31,100,255,256};

    int size = sizeof(decimalNumbers) / sizeof(decimalNumbers[0]);

    std::cout << "Decimal\t\tBinary\t\tHexadecimal" << std::endl;

    std::cout << "-----\t\t-----\t\t-----" << std::endl;

    for (int i = 0; i < size; ++i) {

        int decimal = decimalNumbers[i];

        std::bitset<8> binary(decimal);

        std::cout << std::setw(2) << decimal << "\t\t" << binary << "\t\t"

            << "0x" << std::hex << std::uppercase << decimal << std::dec << std::endl;

    }

    return 0;

}

```

main.cpp

Run

```

3  #include <bitset>
4  #include <iomanip>
5
6  int main() {
7      int decimalNumbers[] = {0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12
          , 13, 14, 15, 16, 17, 18,31,100,255,256};
8      int size = sizeof(decimalNumbers) / sizeof(decimalNumbers[0]);
9
10     std::cout << "Decimal\t\tBinary\t\tHexadecimal" << std::endl;
11     std::cout << "-----\t\t-----\t\t-----" << std::endl;
12
13     for (int i = 0; i < size; ++i) {
14         int decimal = decimalNumbers[i];
15         std::bitset<8> binary(decimal);
16         std::cout << std::setw(2) << decimal << "\t\t" << binary <<
            "\t\t"
17         << "0x" << std::hex << std::uppercase << decimal
            << std::dec << std::endl;
18     }
19
20     return 0;

```

/tmp/IzyB3ZizBK.o

Decimal	Binary	Hexadecimal
-----	-----	-----
0	00000000	0x0
1	00000001	0x1
2	00000010	0x2
3	00000011	0x3
4	00000100	0x4
5	00000101	0x5
6	00000110	0x6
7	00000111	0x7
8	00001000	0x8
9	00001001	0x9
10	00001010	0xA
11	00001011	0xB
12	00001100	0xC
13	00001101	0xD
14	00001110	0xE
15	00001111	0xF
16	00010000	0x10
17	00010001	0x11