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#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;

}

