Given the time in numerals we may convert it into words, as shown below:

At , use o' clock. For , use past, and for use to. Note the space between the apostrophe and clock in o' clock. Write a program which prints the time in words for the input given in the format described.

Function Description

Complete the timeInWords function in the editor below.

timeInWords has the following parameter(s):

int h: the hour of the day

int m: the minutes after the hour

Returns

string: a time string as described

Input Format

The first line contains , the hours portion The second line contains , the minutes portion

Constraints

Sample Input 0

5

47

Sample Output 0

thirteen minutes to six

Sample Input 1

3

00

Sample Output 1

three o' clock

Sample Input 2

7

15

Sample Output 2

quarter past seven

**Solution**

#include <iostream>

using namespace std;

string numbers\_to\_words[] = {

    "",

    "One",

    "Two",

    "Three",

    "Four",

    "Five",

    "Six",

    "Seven",

    "Eight",

    "Nine",

    "Ten",

    "Eleven",

    "Twelve",

    "Thirteen",

    "Fourteen",

    "Quarter",

    "Sixteen",

    "Seventeen",

    "Eighteen",

    "Nineteen",

    "Twenty",

    "TwentyOne",

    "TwentyTwo",

    "TwentyThree",

    "Twentyfour",

    "Twentyfive",

    "Twentysix",

    "Twentyseven",

    "Twentyeight",

    "Twentynine",

    "Half"

};

string convertToWords(int hour, int min) {

    if (hour > 12 || hour < 0) {

        cout << "Invalid Time..! ";

    } else {

        if (min < 0 || min > 60) {

            cout << "Invalid Time..! ";

        } else {

            cout << "Time = " << hour << " : " << min << endl << endl;

            if (min == 00) {

                return numbers\_to\_words[hour] + " o' clock";

            } else if (min == 15) {

                return "Quarter Past " + numbers\_to\_words[hour];

            } else if (min == 30) {

                return "Half Past " + numbers\_to\_words[hour];

            } else if (min == 45) {

                return "Quarter to " + numbers\_to\_words[hour + 1];

            } else if (min >= 1 && min <= 14) {

                return numbers\_to\_words[min] + " minutes past " + numbers\_to\_words[hour];

            } else if (min >= 16 && min <= 29) {

                return numbers\_to\_words[min] + " minutes past " + numbers\_to\_words[hour];

            } else if (min >= 31 && min <= 44) {

                return (numbers\_to\_words[60 - min]) + " minutes to " + numbers\_to\_words[hour + 1];

            } else if (min >= 46 && min <= 59) {

                return numbers\_to\_words[60 - min] + " minutes to " + numbers\_to\_words[hour + 1];

            } else if (min == 60) {

                return numbers\_to\_words[hour + 1] + " o' clock";

            } else {

                return "Something went wrong";

            }

        }

    }

}

int main() {

    int hour, min;

    cout << "Enter Hour : ";

    cin >> hour;

    cout << endl << "Enter Minutes : ";

    cin >> min;

    cout << endl;

    string result = convertToWords(hour, min);

    cout << result;

}