

Question13: Write a program to check if a year is a leap year. If it is, further check if it is divisible by 400 (special rule for leap years)

```
#include <iostream>

using namespace std;

int main() {

    int year;

    cout << "Enter a year: ";

    cin >> year;

    if (year % 4 == 0) {

        if (year % 100 == 0) {

            if (year % 400 == 0) {

                cout << "Leap year and divisible by 400";

            } else {

                cout << "Not a leap year";

            }

        } else {

            cout << "Leap year, but not divisible by 400";

        }

    } else {

        cout << "Not a leap year";

    }

    return 0;

}
```