#include <iostream>

#include <windows.h>

using namespace std;

int main()

{

cout << "\t\tCALENDAR\n";

cout << " Please, enter the year:\n";

int year;

cin >> year;

cout << "\n";

for (int m = 1; m <= 12; m++)

{

if (m == 1) cout << "\tJANUARY ";

else if (m == 2) cout << "\tFEBRUARY ";

else if (m == 3) cout << "\tMARCH ";

else if (m == 4) cout << "\tAPRIL ";

else if (m == 5) cout << "\tMAY ";

else if (m == 6) cout << "\tJUNE ";

else if (m == 7) cout << "\tJULY ";

else if (m == 8) cout << "\tAUGUST ";

else if (m == 9) cout << "\tSEPTEMBER ";

else if (m == 10) cout << "\tOCTOBER ";

else if (m == 11) cout << "\tNOVEMBER ";

else if (m == 12) cout << "\tDECEMBER ";

cout << year << "\n\n";

cout<< "Mon"; cout << "\tTue"; cout << "\tWed"; cout << "\tThu"; cout << "\tFri";

HANDLE hStdOut = GetStdHandle(STD\_OUTPUT\_HANDLE);

SetConsoleTextAttribute(hStdOut, FOREGROUND\_RED);

printf("\tSat");

printf("\tSun");

SetConsoleTextAttribute(hStdOut, FOREGROUND\_BLUE | FOREGROUND\_GREEN | FOREGROUND\_RED);

cout << "\n";

int d = 1;

int max\_day = 0;

if (((year % 4 == 0 && year % 100 != 0) || year % 400 == 0) && m == 2) // високосный год

{

max\_day = 29;

}

if ((year % 4 > 0 && year % 400 != 0 || year % 100 == 0) && m == 2) // невисокосный год

{

max\_day = 28;

}

if ((((year % 4 == 0 && year % 100 != 0) || year % 400 == 0) ||

((year % 4 > 0 && year % 400 != 0) || year % 100 == 0)) &&

(m == 1 || m == 3 || m == 5 || m == 7 || m == 8 || m == 10 || m == 12))

{

max\_day = 31;

}

if ((((year % 4 == 0 && year % 100 != 0) || year % 400 == 0) ||

((year % 4 > 0 && year % 400 != 0) || year % 100 == 0)) &&

(m == 4 || m == 6 || m == 9 || m == 11))

{

max\_day = 30;

}

int k = 0;

for (d = 1; d <=max\_day; d++)

{

int a = (14 - m) / 12;

int year1 = year - a;

int month1 = m + (12 \* a) - 2;

int DW = (d + (31 \* month1) / 12 + year1 + year1 / 4 - year1 / 100 + year1 / 400) % 7;

if (DW == 0)

{

DW = DW + 7;

}

if (k % 7 != DW - 1)

{

d = d - 1;

cout << " "; cout << "\t";

}

if (k % 7 == DW - 1)

{

if (DW - 1 == 5)

{

SetConsoleTextAttribute(hStdOut, FOREGROUND\_RED);

cout << d; cout << "\t";

SetConsoleTextAttribute(hStdOut, FOREGROUND\_BLUE | FOREGROUND\_GREEN | FOREGROUND\_RED);

}

else if (DW - 1 == 6)

{

SetConsoleTextAttribute(hStdOut, FOREGROUND\_RED);

cout << d; cout << "\t";

SetConsoleTextAttribute(hStdOut, FOREGROUND\_BLUE | FOREGROUND\_GREEN| FOREGROUND\_RED);

}

else

{

cout << d; cout << "\t";

}

}

if (DW - 1 == 6 && k % 7 == 6)

{

cout << "\n";

}

k++;

}

cout << "\n\n---------------------------------------------------\n\n";

}

}

