#include <iostream>

using namespace std;

bool isLeap(int year);

int monthLenght(int year, int month);

int main() {

for(int yr = 2000; yr < 2002; yr++){

for(int mo = 0; mo < 12; mo++)

cout << monthLenght(yr, mo) << " ";

cout << endl;

}

}

bool isLeap(int year){

if(year%4==0){

return true;

}else{

return false;

}

}

int monthLenght(int year, int month){

int curentMonth;

static int arrMonthOfLeapYear[] = {31, 29, 31, 30, 31, 30, 31, 31, 30, 31, 30, 31};

static int arrMonthOfNoLeapYear[] = {31, 28, 31, 30, 31, 30, 31, 31, 30, 31, 30, 31};

if(isLeap(year)){

curentMonth = arrMonthOfLeapYear[month];

return curentMonth;

}else{

curentMonth = arrMonthOfNoLeapYear[month];

return curentMonth;

}

}