#include <iostream>

using namespace std;

bool isLeap(int year);int monthLength(int year, int month);

int main(void) {

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

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

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

cout << endl;

}

return 0;

}

bool isLeap(int year){

bool result = false;

if(year % 4 == 0)result=true;

return result;

}

int monthLength(int year, int month) {

int countOfDays;

switch (month) {

case 1: countOfDays= 31;break;

case 2: if(isLeap(year)==true) countOfDays= 29;else countOfDays= 28; break;

case 3: countOfDays= 31;break;

case 4: countOfDays= 30;break;

case 5: countOfDays= 31;break;

case 6: countOfDays= 30;break;

case 7: countOfDays= 31;break;

case 8: countOfDays= 31;break;

case 9: countOfDays= 30;break;

case 10: countOfDays= 31;break;

case 11: countOfDays= 30;break;

case 12: countOfDays=31;break;

}

return countOfDays;

}