#include "mbed.h"

BusOut output1(LED1);

BusOut output2(LED2);

DigitalIn c(p5),b(p6),a(p7);

int O1, O2;

int main(){

a.mode(PullUp);

b.mode(PullUp);

c.mode(PullUp);

while(1){

output1=0;

output2=0;

O1 = (!a ^ !b);

O2 = ((!a & !b & !c) | (a & !c));

output1 = O1;

output2 = O2;

}

}