#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;

 }

}