#include<stdio.h>

int main ()

{

long bin1, bin2;

int i=0, rem=0, sum[20];

printf("enter the first binary number: ");

scanf("%1d", &bin1);

printf("enter the second binary number: ");

scanf("%1d", &bin2);

while (bin1!=0 || bin2!=0)

{

sum[i++] =(bin1%10 + bin2%10 + rem) % 2;

rem =(bin1%10 + bin2%10 + rem) / 2;

bin1/=10;

bin2/=10;

}

if (rem!=0)

sum[i++] = rem;

--i;

printf("\nsum of two binary numbers: ");

while (i>=0)

printf("%d", sum[i--]);

return 0;

}

