#include<stdio.h>

#include<math.h>

int digitcount(int);

int rcomplement(int,int);

int main()

{

int x,y;

int m,n,comp,sub,DC,ans,p;

printf("Enter the first number in decimal system :");

scanf("%d",&x);

printf("\n Enter the second number in decimal system containing same number of digits as first number :");

scanf("%d",&y);

m = digitcount(x);

n = digitcount(y);

if (m==n)

{

comp = rcomplement( x, m);

sub = y + comp;

DC = digitcount(sub);

if (DC>m)

{

p=DC-1;

ans= sub - pow(10,p);

printf("\n %d - %d = -%d ",x,y,ans);

}

else

{

ans = rcomplement( sub, DC);

printf("\n %d - %d = %d ",x,y,ans);

}

}

else

{

printf("\n Wrong input,Enter again.");

}

return 0;

}

int digitcount(int a)

{

int b = 0 ;

while (a!=0)

{

a = a / 10 ;

b++ ;

}

return b;

}

int rcomplement(int x,int m)

{

int z = pow(10,m) - x;

return z ;

}