Write a c program to solve a system of linear congruences by applying the Chinese Remainder Theorem.

```
#include<stdio.h>

int findMinX(int num[], int rem[], int k)

{

        int x = 1;

           while (1)

           {

                      Int  j;

                   for (j=0; j<k; j++ )

                              if (x%num[j] != rem[j])

                              break;

                   if (j == k)

                              return x;

                   x++;

           }

           return x;

}


int  main(void)

{

           int num[100];

           int rem[100];

           int k;

           printf("Enter k value\n");

           scanf("%d",&k);
```

```
        printf("enter numbers\n");
        for(int i=0;i<k;i++)
        scanf("%d",&num[i]);
        printf("enter remainders\n");
        for(int i=0;i<k;i++)
        scanf("%d",&rem[i]);
    printf("output=%d",findMinX(num, rem, k));
        return 0;
}
```