

!!!Caution!!!

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Hashing(Division Method)

You are given k mobile numbers and n slots (0<=k<=n). Write a program to build a mobile phonebook in which you can insert and search in O(1) time on average. You program should print the slots in which the phone number are saved. You are supposed to use a folding method which is described below.

If mobile number is 9234567891 and n=11, divide the phone number into groups of 2 digits and perform addition, 92+34+56+78+91=351, divide the resultant value by 'n' i.e. 11 and keep the remainder i.e 10. The remainder is will be used an index in which the mobile number is saved.

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Language

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Your code has Passed Execution!

```
#include<stdio.h>
int main()
{
    int n, k, i, sum[10], ind=0, r=0, t=0;
    long int arr[10];
    scanf("%d%d", &k, &n);
    for(i=0; i<n; i++)
        scanf("%ld", &arr[i]);
    for(i=0; i<n; i++)
    {
        r=0;
        t=0;
        while(arr[i]>0){
            r=arr[i]%100;
            arr[i]=arr[i]/100;
            t+=r;
        }
        sum[ind++]=t;
    }
    for(i=0; i<n; i++)
        sum[i]=sum[i]%k;
    for(i=0; i<n; i++)
        for(int j=i+1; j<n; j++)
            if(sum[i]==sum[j])
                sum[j]=sum[j]+1;

    for(i=0; i<n; i++)
        printf("%ld ", sum[i]);
    return 0;
}
```



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