```c
#include<stdio.h>

int main(){
    int a, b, m, sum = 0, prod = 1;
    scanf("%d + %di\n%d",&a,&b,&m);

    sum += a%10;
    sum += (a/10)%10;
    sum += (a/100)%10;
    sum += (a/1000)%10;

    prod *= b%10;
    prod *= (b/10)%10;
    prod *= (b/100)%10;
    prod *= (b/1000)%10;

    printf("%d, %d\n", sum, prod);

    if((sum % m == 0) && (prod % m == 0))
        printf("Favorite");
    else
        printf("Not favorite");
    return 0;
}
```