

```
#include<stdio.h>

int main(){
    int m, n;
    int a, b, c, d, p, q, r, s;
    int sum1, sum2, num;
    int rick;

    scanf("%d %d",&m,&n);

    d = m%10;
    c = (m/10)%10;
    b = (m/100)%10;
    a = (m/1000)%10;

    s = n%10;
    r = (n/10)%10;
    q = (n/100)%10;
    p = (n/1000)%10;

    sum1 = a+b+c+d;
    sum2 = p+q+r+s;
    num = (sum1 % 2 == 0) + (sum2 % 2 == 0);

    printf("%d\n%d\n",sum1,sum2);
    if(num == 1){ // Rick's number is apbqcrds
        printf("One\n");
        rick = a*10000000 + p*1000000 + b*100000 + q*10000 + c*1000 + r*100 + d*10 + s*1;
        printf("%d",rick);
    }else{ // Rick's number is paqbrcsd
        if(num == 2) printf("Both\n");
        else printf("Neither\n");
        rick = p*10000000 + a*1000000 + q*100000 + b*10000 + r*1000 + c*100 + s*10 + d*1;
        printf("%d",rick);
    }

    return 0;
}
```