

1

```
int subRemainder(int num, int k){
    int a=0,b=0,c=0;
    a=num%1000;
    b=(num/=10)%1000;
    c=num/100;
    if (a%k==b%k&& a%k==c%k)
    {
        return 1;
    }
    return 0;
}
```

2

```
int multiplication(int a, int b){
    int sum = 0, i, j, tmp_b;
    while(a>0){
        i = a % 10;
        a /= 10;
        tmp_b = b;
        while(tmp_b>0){
            j = tmp_b % 10;
            tmp_b /= 10;
            sum += i*j;
        }
    }
    return sum;
}
```

3

```
int main(){
    int n, m;
    scanf("%d%d", &n, &m);
    int base = 1;
    while(m--){
        base = base * n + 1;
    }
    printf("%d\n",base);
}
```

4

```
#include <stdio.h>

int main(){
    int n,m,ans=0;
    scanf("%d %d",&n,&m);
    for(int i=m;i<n;++i){
        for(int j=i;j<n;++j){
            if(n-i-j<j){
                break;
            }
            ans++;
        }
    }
    printf("%d",ans);
    return 0;
}
```

5

```
#include<stdio.h>
#include <math.h>

int isSquare(int num)
{
    double res=sqrt(num);
    int k=(int)res;
    if(k*k==num)
        return 1;
    else
        return 0;
}

int isReverse(int n)
{
    int ts,sum=0;
    ts=n;
    while(n!=0){
        sum=sum*10+n%10;
        n=n/10;
    }
    if(sum==ts)
        return 1;
    else
        return 0;
}
```

```
}

int main()
{
    int t;
    int num;
    scanf("%d",&t);
    scanf("%d",&num);
    for(int i=1;i<=t;i++){
        if(isSquare(num)&&isReverse(num)){
            printf("Yes\n");
        }
        else {
            printf("No\n");
        }
        scanf("%d",&num);
    }
    return 0;
}
```