Q1. Given an integer n, count and return the number of zeros that are present in the given integer using recursion.

```
int countZeros(int n){
//finish this function
}
int main(){
int n;
cin>>n;
cout<<countZeros(n);
}
```

Q2. Given k, find the geometric sum i.e.
1 + 1/2 + 1/4 + 1/8 + ... + 1/(2^k)
using recursion. Return the answer.

Sample Input :
```
3
```
Sample Output :
```
1.875
```

```
double geometricSum(int k) {
   // Write your code here
}
int main(){
int k;
cin>>k;
cout<<geometricSum(k);
}
```

Q3. Write a recursive function that returns the sum of the digits of a given integer.

```
int sumOfDigits(int n) {
   // Write your code here
}
int main(){
int k;
cin>>k;
cout<< sumOfDigits (k);
}
```

Q4. Given two integers m & n, calculate and return their multiplication using recursion. You can only use subtraction and addition for your calculation. No other operators are allowed.

```
int multiplyNumbers(int m, int n) {
   // Write your code here
}
int main(){
int m,n;
cin>>m;
cin>>n;
cout<< multiplyNumbers (m,n);
}
```