```c
#include <stdio.h>

long long factorial(int n) {
    long long result = 1;
    if (n < 0) {
        printf("Factorial is not defined for negative numbers.\n");
        return 0;
    }
    else if (n == 0) {
        return 1;
    }
    else {
        for (int i = 1; i <= n; i++) {
            result *= i;
        }
        return result;
    }
}

int main() {
    int num;
    scanf("%d", &num);
    long long fact = factorial(num);
    if (num >= 0) {
        printf("Factorial of %d is %lld\n", num, fact);
    }
    return 0;
}
```

```c
#include <stdio.h>

long long factorial(int n) {
    if (n == 0 || n == 1) {
        return 1;
    }
    else {
        long long fact;
        fact = n * factorial(n - 1);
        return fact;
    }
}

int main() {
    int num=5;
    if (num < 0) {
        printf("Factorial is not defined for negative numbers.\n");
    } else {
        printf("Factorial of %d = %lld\n", num, factorial(num));
    }
    return 0;
}
```

```c
#include <stdio.h>

int sumofN(int n) {
    if (n == 0) {
        return 0;
    }
    else {
        return n + sumofN(n - 1);
    }
}

int main() {
    int num;
    scanf("%d", &num);
    printf("Sum of first %d natural numbers = %d\n", num, sumofN(num));
    return 0;
}
```

```c
#include <stdio.h>

int fib(int n) {
    if (n <= 1) {
        return n;
    } else {
        return fib(n - 1) + fib(n - 2);
    }
}

int main() {
    int n;
    scanf("%d", &n);
    if (n < 0) {
        printf("Fibonacci numbers are not defined for negative numbers.\n");
    } else {
        printf("The %dth Fibonacci number is: %d\n", n, fib(n));
    }
    return 0;
}
```

```c
#include <stdio.h>

int main() {
    long long int n;
    int k;
    scanf("%lld", &n);
    if (n == 0) {
        printf("Error: The integer cannot be zero.\n");
    }

    scanf("%d", &k);
    if (k == 0) {
        printf("Error: The divisor k cannot be zero.\n");
    }
    if (n % k == 0) {
        printf("%lld is divisible by %d.\n", n, k);
    } else {
        printf("%lld is not divisible by %d.\n", n, k);
    }
    return 0;
}
```

```c
#include <stdio.h>
int main(){
    char str1[10],str2[10],str3[10];
    scanf("%s",str1);
    scanf("%s",str2);
    scanf("%s",str3);
    printf("%s\n%s\n%s",str3,str2,str1);
    return 0;
}
```

```c
#include <stdio.h>
#include <string.h>

int main() {
    int n;
    scanf("%d",&n);
    while(n--){
    char str[100];
    char temp;
    int i, j;
    scanf("%s", str);
    int length = strlen(str);
    for (i = 0, j = length - 1; i < j; i++, j--) {
        temp = str[i];
        str[i] = str[j];
        str[j] = temp;
    }
    printf("Reversed string: %s\n", str);
    }
    return 0;
}
```

```c
#include<stdio.h>
#include<string.h>
int main()
{
    int t;
    scanf("%d",&t);
    while(t--)
    {
        int flag=1;
        char s[100000];
        scanf("%s",s);
        int k=strlen(s);

        if(k==10)
        {
            for(int i=0;i<10;i++)
            {
                if(s[0]=='0')
                {
                    flag=0;
                    break;
                }
                if(s[i]<'0'||s[i]>'9')
                {
                    flag=0;
                    break;
                }
            }
        }
        else
        flag=0;
        if(flag==1)
        printf("YES\n");
        else
        printf("NO\n");
    }
    return 0;

}
```

```c
#include <stdio.h>

float average(int arr[], int n) {
    int sum = 0;
    for (int i = 0; i < n; i++) {
        sum += arr[i];
    }
    return (float)sum / n;
}

int main() {
    int n;
    scanf("%d", &n);
    int numbers[n];
    printf("Enter %d numbers:\n", n);
    for (int i = 0; i < n; i++) {
        scanf("%d", &numbers[i]);
    }
    float avg = average(numbers, n);
    printf("The average of the numbers is: %.2f\n", avg);
    return 0;
}
```