```
int factorial(const int aNumber);
sang@sang-VirtualBox:~/2011969/problem1$ ls
factorial  factorial.c  factorial.h
sang@sang-VirtualBox:~/2011969/problem1$ cat factorial.c
#include<stdio.h>
#include"factorial.h"

int factorial(const int aNumber){
        if(aNumber<0){
                printf("Invalid input number");
                return 0;
        }if(aNumber==0)return 1;
        return aNumber*factorial(aNumber-1);
}

int main(){
        printf("%d",factorial(10));
}
sang@sang-VirtualBox:~/2011969/problem1$ cat factorial.h
int factorial(const int aNumber);
sang@sang-VirtualBox:~/2011969/problem1$ ./factorial
3628800sang@sang-VirtualBox:~/2011969/problem1$
```