C day15_q29.c > ...

```c
// Q29: Write a program to calculate the factorial of a number.

/*
Sample Test Cases:
Input 1:
5
Output 1:
120

Input 2:
3
Output 2:
6

*/

#include <stdio.h>

int main() {
    int n, i;
    unsigned long long factorial = 1;
    scanf("%d", &n);
    for(i = 1; i <= n; ++i) {
        factorial *= i;
    }
    printf("%llu\n", factorial);
    return 0;
}

```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

```
PS C:\Users\drago\OneDrive\Desktop\C H.W> gcc .\day15_q29.c
PS C:\Users\drago\OneDrive\Desktop\C H.W> ./a.exe
5
120
PS C:\Users\drago\OneDrive\Desktop\C H.W> gcc .\day15_q29.c
PS C:\Users\drago\OneDrive\Desktop\C H.W> ./a.exe
3
6
PS C:\Users\drago\OneDrive\Desktop\C H.W>
```

day15_q30.c > ...

```c
// Q30: Write a program to reverse a given number.

/*
Sample Test Cases:
Input 1:
1234
Output 1:
4321

Input 2:
100
Output 2:
1

*/

#include <stdio.h>

int main() {
    int num, reversed = 0, remainder;
    scanf("%d", &num);
    while (num != 0) {
        remainder = num % 10;
        reversed = reversed * 10 + remainder;
        num /= 10;
    }
    printf("%d\n", reversed);
    return 0;
}
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

```
PS C:\Users\drago\OneDrive\Desktop\C H.W> gcc .\day15_q30.c
PS C:\Users\drago\OneDrive\Desktop\C H.W> ./a.exe
1234
4321
PS C:\Users\drago\OneDrive\Desktop\C H.W> gcc .\day15_q30.c
PS C:\Users\drago\OneDrive\Desktop\C H.W> ./a.exe
100
1
PS C:\Users\drago\OneDrive\Desktop\C H.W>
```