

C day17_q33.c > main()

```
1 // Q33: Write a program to check if a number is an Armstrong number.
2
3 /*
4 Sample Test Cases:
5 Input 1:
6 153
7 Output 1:
8 Armstrong
9
10 Input 2:
11 123
12 Output 2:
13 Not Armstrong
14
15 */
16
17 #include <stdio.h>
18 #include <math.h>
19
20 int main() {
21     int num, original, remainder, n = 0;
22     double sum = 0.0;
23     scanf("%d", &num);
24     original = num;
25     while (original != 0) {
26         original /= 10;
27         ++n;
28     }
29     original = num;
30     while (original != 0) {
31         remainder = original % 10;
32         sum += pow(remainder, n);
33         original /= 10;
34     }
35     if ((int)sum == num)
36         printf("Armstrong\n");
37     else
38         printf("Not Armstrong\n");
39     return 0;
40 }
```

PROBLEMS

OUTPUT

DEBUG CONSOLE

TERMINAL

PORTS

PS C:\Users\drago\OneDrive\Desktop\C H.W> gcc .\day17_q33.c

PS C:\Users\drago\OneDrive\Desktop\C H.W> ./a.exe

153

Armstrong

PS C:\Users\drago\OneDrive\Desktop\C H.W> gcc .\day17_q33.c

PS C:\Users\drago\OneDrive\Desktop\C H.W> ./a.exe

123

Not Armstrong

PS C:\Users\drago\OneDrive\Desktop\C H.W> |

```

C day17_q34.c > ...
1 // Q34: Write a program to check if a number is prime.
2
3 /*
4 Sample Test Cases:
5 Input 1:
6 7
7 Output 1:
8 Prime
9
10 Input 2:
11 10
12 Output 2:
13 Not prime
14
15 */
16
17 #include <stdio.h>
18
19 int main() {
20     int n, i, flag = 0;
21     scanf("%d", &n);
22     if (n <= 1) flag = 1;
23     for (i = 2; i * i <= n; i++) {
24         if (n % i == 0) {
25             flag = 1;
26             break;
27         }
28     }
29     if (flag == 0)
30         printf("Prime\n");
31     else
32         printf("Not Prime\n");
33     return 0;
34 }
35

```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

```

PS C:\Users\drago\OneDrive\Desktop\C H.W> gcc .\day17_q34.c
PS C:\Users\drago\OneDrive\Desktop\C H.W> ./a.exe
7
Prime
PS C:\Users\drago\OneDrive\Desktop\C H.W> gcc .\day17_q34.c
PS C:\Users\drago\OneDrive\Desktop\C H.W> ./a.exe
10
Not Prime
PS C:\Users\drago\OneDrive\Desktop\C H.W>

```