

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> █