“चला तर, Coding शिकू आपल्या भाषेत!”

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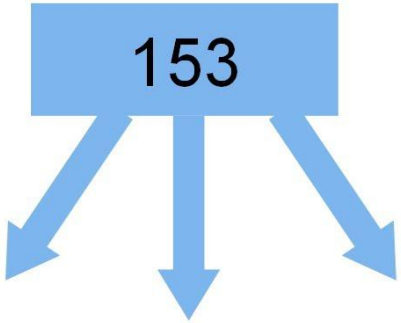
Armstrong number

What is an Armstrong Number



$$1^3 + 5^3 + 3^3 = 153$$

153

a=153%10=3

y=x/10=153/10=15

b=y%10=15%10=5

c=15/10=1

```c
#include <stdio.h>

void main() {
    int a, b, c, x, y, d;
    printf("Enter a number: ");
    scanf("%d", &x);

    a = x % 10;
    y = x / 10;
    b = y % 10;
    c = y / 10;

    d = (a * a * a) + (b * b * b) + (c * c * c);

    if (d == x)
        printf("It is Armstrong");
    else
        printf("It is Not Armstrong");

    getch();
}
```

An Armstrong number (also known as a Narcissistic number) is a number that is equal to the sum of its own digits, each raised to the power of the number of digits. For example:

- 153 is an Armstrong number because $1^3 + 5^3 + 3^3 = 153$.
- 9474 is an Armstrong number because $9^4 + 4^4 + 7^4 + 4^4 = 9474$.

x=153

t=153%10=3,5,1

s=s+(t*t*t)=0+(3*3*3)=27
=27+(5*5*5)=152
=152+(1*1*1)=153

y=y/10
y/10=153/10=15
=15/10=1
=1/10=0

x==s

```c
#include <stdio.h>

void main() {
    int x, y, t, s = 0;
    printf("Enter a number: ");
    scanf("%d", &x);

    y = x;
    while (y != 0) {
        t = y % 10;
        s = s + (t * t * t);
        y = y / 10;
    }

    if (x == s)
        printf("It is Armstrong");
    else
        printf("It is Not Armstrong");

    getch();
}
```

b=123%10=3
S=0+3=3
X=123/10

b=12%10=2
S=3+2=5
X=12/10

b=1%10=1
S=5+1=6
X=1/10=0
(loop break condititon)

Sum Of Digits

Enter a number: 123
Sum of digits = 6

b=123%10=3
S=0*10+3=3
X=123/10

b=12%10=2
S=3*10+2=32
X=12/10

b=1%10=1
S=32*10+1=321
X=1/10=0
(loop break condititon)

Reverse of Number

Enter a number: 123
Reversed number = 321

b=121%10=1
S=0*10+1=1
X=123/10

b=12%10=2
S=1*10+2=12
X=12/10

b=1%10=1
S=12*10+1=121
X=1/10=0
(loop break condititon)

palindrome number

Enter a number: 121
Reversed number = 121

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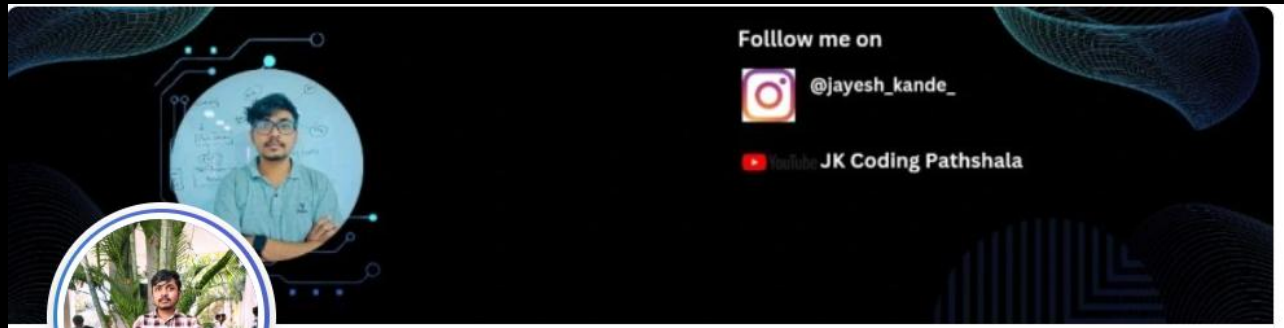

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