


$$\begin{aligned} &= 1^3 + 5^3 + 3^3 \\ &= 1 + 125 + 27 \\ &= 153 \end{aligned}$$
$$\begin{aligned} n &= 123 \\ &= 1^3 + 2^3 + 3^3 \\ &= 1 + 8 + 27 \\ &= 36 \end{aligned}$$

$(6132)_{10} \Rightarrow 6000 + 100 + 50 + 2$
 $\begin{matrix} 10^3 \times 6 & 10^2 \times 1 & 10^1 \times 3 & 10^0 \times 2 \end{matrix}$

 $2516 \Rightarrow 2000 + 500 + 10 + 6$

$$\begin{array}{r} 2 \\ \downarrow 3 \\ 2000 \end{array} \quad \begin{array}{r} 5 \\ \downarrow 2 \\ 500 \end{array}$$

Q. Reverse the no:
int n = 34921
o/p: 12943.

val = 1 2 9 4 3
return

num = 125 153 \Rightarrow k-matching

$$1^1 + 2^1 + 5^1$$

$2+8+125$ \therefore It's not an Armstrong

134

① factorial :

```
int n = 2;
```

$5 \times 4 \times 3 \times 2 \times 1 \Rightarrow 120$
 \Downarrow
 o/p

```
int n=6;
```

$6 \times 5 \times 4 \times 3 \times 2 \times 1 \Rightarrow 720$
 \downarrow
 o/p

$$n = 8$$

6/p:

$$2 \times 2 \times 3 + 4 + 5 + 6 + 7 + 8$$

odd nos: $\text{int } n = 25$

$$\begin{array}{r} 12 \\ 2 \overline{) 22} \\ \underline{14} \\ 8 \end{array}$$

$$\begin{array}{r} 12 \\ 2 \overline{) 26} \\ \underline{26} \\ 0 \end{array}$$

$$\begin{array}{r} 22 \\ 2 \overline{) 45} \\ \underline{44} \\ 1 \end{array}$$

```
if (n1.2 == 2) {
    sort(vdel);
} else {
    sort(cien);
}
```

i = 4, 5
sum = 0, 4

Q. sum of odd nrs in the range 1 to 100

```
int sum=0;
```

```
for(int i=1; i<100; i++) {
```

if (i % 2 == 1) {

3 $\text{sum} = \text{sum} + 1;$

3

```

sum += sum;

```

1. Print 1 to 100.

2. Print odd nos.

8. Sum of them

Is the medieval age, here were 3 kingdoms A , B and C . The army of these kingdoms had N_A , N_B and N_C soldiers respectively.

You are given that an army with X soldiers can defeat an army with Y soldiers only if $X > Y$.

An army is said to be **dominant** if it can defeat both the other armies combined. For example, kingdom C 's army will be dominant only if $N_C > N_A + N_B$.

Determine whether any of the armies is dominant or not.

N_A	N_B	N_C
1000	200	150

 $K = 25$ $x \in 10$

O/p: 8