Topics to discuss

- Armstrong number
- Its time & space complexity.

Armstrong Number

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Armstrong Number is a special kind of number where sum of its own digits each raised to the power of the number of digits.

eg 1: $153 = 1^3 + 5^3 + 3^3 = 1 + 125 + 27$

$= 153$

eg-2 : $1634 = 1^4 + 6^4 + 3^4 + 4^4$

$= 1 + 1296 + 81 + 256$

$= 1634$

```
static boolean solution(int a){
    int temp = a;
    int original = a;
    int count = 0;
    while (a != 0){
        a = a/10;
        count++;
    }
    int sum = 0;
    while (temp != 0) {
        int rem = temp % 10;
        sum += Math.pow(rem, count);
        temp = temp/10;
    }
    return original == sum;
}
```

a = 153

count = 3

sum = 0 rem = 3

$sum = 3^3 + 5^3 + 1^3$

temp = 153/10

= 15.3

= 15

① I/p : 124

O/p : No

② I/p : 153

O/p : Yes

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