



Take n as an integer input.

Then write a function that takes in this n as an integer parameter and returns if n is an Armstrong number or not.

In the end, print "true" or "false" accordingly.

Note: An armstrong number is a number which is equal to the sum of the cube of its digits.

#### Output Format

Print "true" or "false" accordingly.

#### Sample Input 0

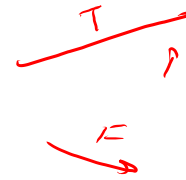
782 → true  
→ false

#### Sample Output 0

false

n = 782 → true  
→ false

$$(7^3 + 8^3 + 2^3) = 82$$



Armstrong

Not an Armstrong

1634  
✓  
1 + 216 + 27864

# Print Armstrong in a range

Problem	Submissions	Leaderboard	Discussions
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Take x and y as integer inputs.  
Print all the Armstrong numbers in separate line which lie in the range x to y (both x and y inclusive)  
Use the function isArmstrong() which checks if a number is an Armstrong number or not and returns true or false accordingly.

Sample Input 0

x = 1  
y = 200

Sample Output 0

1  
153

```
public class Solution {  
    public static boolean armStrong(int n){  
        int ans=0; int temp=n;  
        while(n>0){  
            int ld=n%10;  
            n/=10;  
            ans=ans+(ld*ld*ld);  
        }  
        if(ans==temp){  
            return true;  
        }  
        else{  
            return false;  
        }  
    }  
}
```

for(int i=x; i<=y; i++)  
{  
 // Armstrong logic  
}

n = 782  
ld = 2 ) ans = 8  
n = 78  
ld = 8 ) ans = 8 + 512  
n = 7  
ld = 7 ) ans = 8 + 356 + 343  
n = 0

x = 1, y = 200  
1 - 9 → count = 1  
1<sup>3</sup> = 1, 2<sup>3</sup> = 8, 3<sup>3</sup> = 27  
1<sup>3</sup> = 1  
9<sup>3</sup> = 729

count =  
3 = 1  
2<sup>3</sup> = 8  
2<sup>3</sup> = 8

10 → 1  
x = 1, y = 200 → Print 1, 153  
1<sup>3</sup> = 1, 2<sup>3</sup> = 8, 3<sup>3</sup> = 27  
c = 4

Do factors → 1, n  
10 → 1, 2, 5, 10  
5 → 1, 5 → Prime

6 → 1, 2, 3, 6  
18 → 1, 2, 3, 6, 9, 18

# Print all factors of a number

Problem

Submissions

Leaderboard

Discussions

Take a whole number  $n$  as an integer input and print all the factors of it such that each factor should be printed in a separate line.

Sample Input 0

12

1 2 3 4 6 12

Sample Output 0

1  
2  
3  
4  
6  
12

