

Programming  
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## C program to generate and print armstrong numbers

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C program to generate Armstrong numbers. In our program user will input two integers and we will print all Armstrong numbers between two integers. Using a for loop we will check numbers in the desired range. In our loop we call our function `check_armstrong` which returns 1 if number is Armstrong and 0 otherwise. If you are not familiar with Armstrong numbers see [Check Armstrong number program](#).

### C programming code

```
#include <stdio.h>

int check_armstrong(int);
int power(int, int);

int main () {
    int c, a, b;

    printf("Input two integers\n");
    scanf("%d%d", &a, &b);

    for (c = a; c <= b; c++) {
        if (check_armstrong(c) == 1)
            printf("%d\n", c);
    }

    return 0;
}

int check_armstrong(int n) {
    long long sum = 0, temp;
    int remainder, digits = 0;

    temp = n;

    while (temp != 0) {
        digits++;
        temp = temp/10;
    }

    temp = n;

    while (temp != 0) {
        remainder = temp%10;
        sum = sum + power(remainder, digits);
        temp = temp/10;
    }

    if (n == sum)
        return 1;
    else
        return 0;
}

int power(int n, int r) {
```

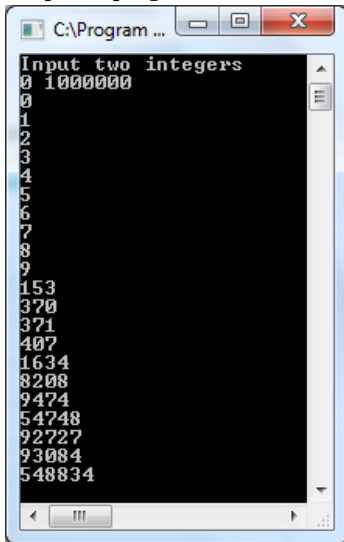
```
int c, p = 1;

for (c = 1; c <= r; c++)
    p = p*n;

return p;
}
```


Download [Generate Armstrong numbers](#) program.


Output of program:



```
Input two integers
0 1000000
0
1
2
3
4
5
6
7
8
9
153
370
371
407
1634
8208
9474
54748
92727
93084
548834
```

In the sample output we are printing Armstrong numbers in range [0, 1000000].

  
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