

Problem E. Wonderful numbers - 3

A natural number n is given. Print in ascending order all three-digit numbers whose sum of digits is equal to n .

Input data

A natural number n is introduced.

Output

Print the answer to the problem.

Examples of
input data

3

output

102

111

120

201

210

300

```
void addDigits() {
    int a;
    int b;
    int c;
    int number; // 3 = a + b + c
    int counter = 0;
    cout << "Type in number: " << endl;
    cin >> number;

    for(int i = 100; i < 1000; i++) {
        a = i % 10;
        b = (i / 10) % 10;
        c = i / 100;
        if (a + b + c == number) {
            cout << i << endl;
        }
    }
}
```

