

```
#include <stdio.h>
int main() {
    int N, k, digits, sumDigits = 0, isPerfectSquare = 0, root;
    scanf("%d", &N);
    digits = N;
    // Find the sum of the digits
    while(digits){
        sumDigits += (digits % 10);
        digits = digits / 10;
    }
    // Start from N+1 since we want numbers that are strictly greater than N
    for(k = N + 1; ; k++){
        isPerfectSquare = 0;
        // If the sum of digits divides this number
        if(k % sumDigits == 0){
            root = 1;
            // Find if this number is a perfect square or not
            while(root * root < k)
                root++;
            if(root * root == k)
                isPerfectSquare = 1;
        }
        if(isPerfectSquare)
            break;
    }
    printf("%d\n%d", sumDigits, k);
    return 0;
}
```