

1) Strong number

```
#include <stdio.h>

int factorial(int n) {
    int f = 1;
    for(int i=2; i<=n; i++) f *= i;
    return f;
}

int main() {
    long num;
    printf("Enter a number:");
    if (scanf("%ld", &num) != 1) return 0;

    long original = num;
    long sum = 0;
    if (num < 0) num = -num;

    while (num > 0) {
        int d = num % 10;
        sum += factorial(d);
        num /= 10;
    }

    if (sum == original)
        printf("%d is a strong number.\n", original);
    else
        printf("%d is NOT a strong number.\n", original);
}
```

2) Perfect number

```
#include <stdio.h>
```

```
int main()
```

```
int num, i, sum = 0,
```

```
printf("Enter a number:");
```

```
scanf("%d", &num);
```

```
for(i=1; i<=num/2; i++) {
```

```
if (num % i == 0) {
```

```
sum += i;
```

```
}
```

```
}
```

```
if (sum == num)
```

```
printf("%d is a perfect number.\n", num);
```

```
else
```

```
printf("%d is not a perfect number.\n", num);
```

```
return 0;
```

```
}
```