Calculadora Simple

```
#include <iostream>
using namespace std;

int main() {
    int a;
    cin >> a;
    while (a >= 0) {
        int b;
        char op;
        cin >> op >> b;
        if (op == '+') cout << a + b << endl;  // se puede sacar factor común cout << endl;
        else if (op == '-') cout << a - b << endl;
        else cout << a*b << endl;
        cin >> a;
    }
}
```

Suma de tiempos

```
int main() {
    int n;
    cin >> n;
    int total = 0;
    for (int i = 0; i < n; ++i) {
        int h, m, s;
        char c;
        cin >> h >> c >> m >> c >> s;
        total = total + 3600*h + 60*m + s;
    }
    int total_horas = total/3600;     // las vars total_* clarifican, pero son innecesarias
    int total_min = (total%3600)/60;
    int total_seg = total%60;
    cout << total_horas << "H "<< total_min << "M " << total_seg << "S" << endl;
}
```

```
int main() {
    int n;
    cin >> n;
    int horas = 0;
    int mins = 0;
    int segs = 0;
    for (int i = 0; i < n; ++i) {
        int h, m, s;
        char c;
        cin >> h >> c >> m >> c >> s;
        horas = horas + h;
        mins = mins + m;
        segs = segs + s;
    }
    mins = mins + segs/60;
    horas = horas + mins/60;
    cout << horas << "H "<< mins%60 << "M " << segs%60 << "S" << endl;
}
```

Parejas pitagóricas

```
#include <iostream>
using namespace std;

//pre: a > 0 y b > 0
//post: retorna true si a*a + b*b es un cuadrado, retorna false en caso contrario
bool is_ptg(int a, int b) {
    int z = a*a + b*b;
    int i = 1;
    while (i*i < z) ++i;
    return i*i == z;
}

int main() {
    int a;
    cin >> a;
    int position = 1;
    bool found = false;
    int b;
    while (not found and cin >> b) {
        if (is_ptg(a,b)) found = true;
        else {
            a = b;
            ++position;
        }
    }
    if (found)
        cout << "First pythagorean pair " << a << ' ' << b << " at position "
             << position << endl;          // se puede sacar factor común cout << endl;
    else cout << "No pythagorean pairs" << endl;
}
```

Suma de dígitos pares

```
#include <iostream>
using namespace std;

// Pre: n >= 0
// Post: returns the sum of n's even digits
int even_digits(int n) {
    if (n == 0) return 0;
    else {
        int d = n%10;
        if (d%2 == 0) return d + even_digits(n/10);
        else return even_digits(n/10);
    }
}

int main() {
    int x;
    while (cin >> x) cout << even_digits(x) << endl;
}
```