

Apuntes para Programación Competitiva

Template

```

                                L[i] = x;
                                }
                                return S;
                                }

#pragma GCC optimize("Ofast")
#include <bits/stdc++.h>
using namespace std;
#define rep(i, n) for (int i = 0; i < n; ++i)
#define rep_(i, k, n) for (int i = k; i < n; ++i)
using ll = long long;

int main() {
    ios_base::sync_with_stdio(false);
    cin.tie(nullptr);
    cout.setf(ios::fixed);
    cout.precision(10);

    // Solution Here

    return 0;
}
```

Input y Output

Scanf y Printf

```
#include <cstdio>

scanf("%d",&value); //int
scanf("%ld",&value); //long y long int
scanf("%c",&value); //char
scanf("%f",&value); //float
scanf("%lf",&value); //double
scanf("%s",&value); //char*
scanf("%lld",&value); //long long int
scanf("%x",&value); //int hexadecimal
scanf("%o",&value); //int octa
```

Cin y Cout

```
#include <iostream>

cin >> bar; // cualquier tipo de dato
cout << bar;
```

DP

Longest Increasing Subsequence

```
int LIS(vector<int> v) {
    vi L;
    int S = 0;
    for (int x : v) {
        int i = upper_bound(all(L), x) -
L.begin();
        if (i == S)
            L.push_back(x), S++;
        else
```