**МВП**

int n;

VEC <int> v, dp, ans;

void in()

{

ifstream cin("input.txt");

cin >> n;

v.resize(n);

for (int i = 0; i < n; i++)

{

cin >> v[i];

}

}

void solution()

{

dp.PB(v[0]);

for (int i = 0; i < n; i++)

{

int ind = lower\_bound(dp.begin(), dp.end(), v[i])-dp.begin();

if (ind == (int)dp.SZ) {dp.PB(v[i]); ans.PB(dp[ind-1]);}

else dp[ind] = v[i];

}

ans.PB(dp[dp.SZ-1]);

}

void out()

{

ofstream cout("output.txt");

cout << ans.SZ << "\n";

for (int i = 0; i < ans.SZ-1; i++)

{

cout << ans[i] << " ";

}

cout << ans[ans.SZ-1] << "\n";

}