#include<bits/stdc++.h>

using namespace std;

bool sortcol( const vector<int>& v1, const vector<int>& v2 ) {

if(v1[0]==v2[0]){

return v1[1]<v2[1];

}

return v1[0] < v2[0];

}

int solve(vector<vector<int> > &v, int n){

vector<int> dp(n);

dp[0] = v[0][1];

int large = INT\_MIN;

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

int max\_ = INT\_MIN;

for(int j=0;j<i;j++){

if(v[j][1]<v[i][1]){

max\_ = max(max\_,dp[j]);

}

}

if(max\_ == INT\_MIN){

dp[i] = 1;

}

else{

dp[i] = 1+max\_;

}

large = max(large,dp[i]);

}

return large;

}

int main(){

int n;

cin>>n;

vector<vector<int> > v(n,vector<int>(2));

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

cin>>v[i][0];

cin>>v[i][1];

}

sort(v.begin(),v.end(),sortcol);

cout<<solve(v,n);

}