**#include <iostream>**

LIS(二分)

**#include <stdio.h>**

**using namespace std;**

**#define MX 505**

**int n;**

**int num[MX];**

**int dp[MX];//LIS**

**int h[MX]; //h[i] 长为 i 的上升序列最小值**

**int bi\_search(int x)**

**{**

**int l=1,r=n;**

**while (l<r)**

**{**

**int mid = (l+r)>>1;**

**if (x>h[mid]) l = mid+1;**

**else r = mid;// 很关键**

**}**

**return l;**

**}**

**int main()**

**{**

**while (scanf("%d",&n)!=EOF)**

**{**

**for (int i=1;i<=n;i++)**

**scanf("%d",&num[i]);**

**int len = 1;**

**dp[1]=1;**

**h[len] = num[1];**

**for (int i=2;i<=n;i++)**

**{**

**if (num[i]>h[len])**

**{**

**dp[i]=++len;**

**h[len]=num[i];**

**}**

**else**

**{**

**int p = bi\_search(num[i]);**

**dp[i]=p;**

**h[p] = num[i];**

**}**

**}**

**}**

**return 0;**

**}**