

基础

STL的使用（程序自带类库） 要求：省三以上会

扩容数组，哈希表，优先队列。

没有特别的单独考，因为大部分题都会用到类库

<https://www.luogu.com.cn/training/158850#problems>

只做入门难度与普及-难度。

简单模拟（循环数组日期进制） 要求：省三以上会

<https://www.lanqiao.cn/problems/19723/learning/>

<https://www.lanqiao.cn/problems/19709/learning/>

<https://www.lanqiao.cn/problems/19701/learning/>

<https://www.lanqiao.cn/problems/19695/learning/>

<https://www.lanqiao.cn/problems/17142/learning/>

前缀和与差分 要求：省二以上会

<https://www.lanqiao.cn/problems/18437/learning/>

<https://www.lanqiao.cn/problems/18439/learning/>

<https://www.lanqiao.cn/problems/18438/learning/>

<https://www.lanqiao.cn/problems/18440/learning/>

<https://www.lanqiao.cn/problems/19716/learning/>

<https://www.lanqiao.cn/problems/19703/learning/>

<https://www.lanqiao.cn/problems/3533/learning/>

<https://www.lanqiao.cn/problems/3514/learning/>

二分 要求：省一以上会

<https://www.lanqiao.cn/problems/2145/learning/>

<https://hydro.ac/d/shallowdream/p/33>

<https://www.lanqiao.cn/problems/18492/learning/>

<https://www.luogu.com.cn/training/111#problems> 会做多少做多少

双指针 要求：省一以上会

<https://www.lanqiao.cn/problems/3265/learning/>

<https://www.lanqiao.cn/problems/17134/learning/>

<https://www.lanqiao.cn/problems/17106/learning/>

<https://www.lanqiao.cn/problems/2209/learning/>

数据结构

栈 要求：省三以上会

不会单独考，知道思想即可。

<https://www.lanqiao.cn/problems/19877/learning/>

队列 要求：省三以上会

不会单独考，知道思想即可。

<https://www.lanqiao.cn/problems/19878/learning>

优先队列 要求：省二以上会

<https://www.lanqiao.cn/problems/4333/learning>

必须掌握自带的优先队列函数使用，了解优先队列原理。

哈希表 要求：省三以上会

<https://www.lanqiao.cn/problems/19870/learning>

必须掌握自带的哈希表使用

并查集 要求：省一以上会

<https://www.lanqiao.cn/problems/19873/learning/>

<https://www.lanqiao.cn/problems/19874/learning/>

单调栈 要求：省一以上会

<https://www.lanqiao.cn/problems/19871/learning>

<https://www.lanqiao.cn/problems/17152/learning>

单调队列 要求：省一以上会

<https://www.lanqiao.cn/problems/19872/learning/>

<https://www.lanqiao.cn/problems/3521/learning>

<https://www.lanqiao.cn/problems/6251/learning/>

数学

最大公约数，最小公倍数，分解质因数，判定素数 要求：省三会

<https://www.lanqiao.cn/problems/1260/learning>

<https://www.lanqiao.cn/problems/1559/learning>

<https://www.lanqiao.cn/problems/1556/learning/>

<https://www.lanqiao.cn/problems/310/learning/>

素数筛 要求：省一会

<https://www.lanqiao.cn/problems/19923/learning>

快速幂，逆元 要求：省一会

<https://www.langqiao.cn/problems/1514/learning>

<https://www.langqiao.cn/problems/1157/learning/>

组合数 要求：省一会

<https://www.langqiao.cn/problems/19880/learning>

<https://www.langqiao.cn/problems/19948/learning>

<https://www.langqiao.cn/problems/19775/learning>

概率与期望：省三会

没有题目，常见的公式要知道，随机事件，期望的定义

搜索

回溯法+二进制枚举 要求：省一会

<https://www.langqiao.cn/problems/19684/learning/>

<https://www.langqiao.cn/problems/19685/learning/>

<https://www.langqiao.cn/problems/19686/learning/>

<https://www.langqiao.cn/problems/8664/learning>

<https://www.langqiao.cn/problems/1508/learning/>

<https://www.langqiao.cn/problems/19694/learning/>

<https://www.langqiao.cn/problems/20111/learning/>

<https://www.langqiao.cn/problems/19712/learning/>

图上DFS+BFS 要求：省一会

<https://www.luogu.com.cn/problem/P1443>

<https://www.luogu.com.cn/problem/P1605>

<https://www.langqiao.cn/problems/1509/learning>

<https://www.langqiao.cn/problems/2222/learning>

<https://www.langqiao.cn/problems/3653/learning>

<https://www.langqiao.cn/problems/3513/learning/>

<https://www.langqiao.cn/problems/19726/learning/>

动态规划 能用记忆化搜索也可以

背包dp 要求：省一会

<https://www.langqiao.cn/problems/19681/learning>

<https://www.langqiao.cn/problems/19682/learning>

<https://www.langqiao.cn/problems/19920/learning>

<https://www.langqiao.cn/problems/19921/learning>

<https://www.langqiao.cn/problems/19917/learning/>

<https://www.langjiao.cn/problems/19919/learning/>

<https://www.langjiao.cn/problems/2186/learning>

<https://www.langjiao.cn/problems/3711/learning/>

<https://www.langjiao.cn/problems/1447/learning>

<https://www.langjiao.cn/problems/2223/learning/>

<https://www.langjiao.cn/problems/17143/learning/>

线性dp 要求：省一会

<https://www.langjiao.cn/problems/1536/learning/>

<https://www.langjiao.cn/problems/505/learning>

<https://www.langjiao.cn/problems/3535/learning>

<https://www.langjiao.cn/problems/19879/learning/>

<https://www.langjiao.cn/problems/3423/learning>

<https://www.langjiao.cn/problems/3381/learning>

<https://www.langjiao.cn/problems/6280/learning>

<https://www.langjiao.cn/problems/3650/learning>

<https://www.langjiao.cn/problems/3355/learning>

<https://www.langjiao.cn/problems/3651/learning>

<https://www.langjiao.cn/problems/3812/learning>

找规律 省二以上会

<https://www.langjiao.cn/problems/19714/learning>

<https://www.langjiao.cn/problems/19698/learning>

<https://www.langjiao.cn/problems/17142/learning>

<https://www.langjiao.cn/problems/19735/learning>