## 编程新手必刷50题 V1.0 （2021.3更新）

# 前言

* 版权归属：九章算法（杭州）科技有限公司
* 可以原文转载和分享，转载时需保留此版权信息，不得对内容进行增删和修改
* 本文作者：九章算法助教团队
* 官方网站：<https://www.lintcode.com/?utm_source=sc-libao-thx>

**背景介绍**

**本资料旨在解决以下这些问题：**

* 编程新手应该怎么刷题？刷哪些题？
* 如何用最快的速度刷最核心的题目？
* LintCode刷题的最佳顺序是怎么样的？

**阶段一：基本数据类型**

**①考察类型**

没有条件控制，没有循环，单纯的按从上到下的顺序执行代码，例如数学计算，取模等问题。

**②必刷题目**

1.[A + B 问题](https://www.lintcode.com/problem/1/?utm_source=sc-libao-thx)

2.[反转一个3位整数](https://www.lintcode.com/problem/37/?utm_source=sc-libao-thx)

3.[计算圆周长和面积](https://www.lintcode.com/problem/764/?utm_source=sc-libao-thx)

4.[巴什博奕](https://www.lintcode.com/problem/1300/?utm_source=sc-libao-thx)

**阶段二：判断语句**

**①考察类型**

主要考察选择结构，没有循环，有if，else if，else等判断语句，例如判断闰年等问题

**②必刷题目**

5.[判断数字与字母字符](https://www.lintcode.com/problem/23/?utm_source=sc-libao-thx)

6.[闰年](https://www.lintcode.com/problem/766/?utm_source=sc-libao-thx)

7.[大小写转换](https://www.lintcode.com/problem/145/?utm_source=sc-libao-thx)

8.[月份天数](https://www.lintcode.com/problem/1141/?utm_source=sc-libao-thx)

9.[简单计算器](https://www.lintcode.com/problem/478/?utm_source=sc-libao-thx)

10.[三数之中的最大值](https://www.lintcode.com/problem/283/?utm_source=sc-libao-thx)

**阶段三：数组与循环**

**①考察类型**

主要考察数组、循环语句，以while、for循环为代码主体的题，不要出现字符串，如数组求和等问题。

**②必刷题目**

11.[打印X](https://www.lintcode.com/problem/25/?utm_source=sc-libao-thx)

12.[数组的最大值](https://www.lintcode.com/problem/214/?utm_source=sc-libao-thx)

13.[生成给定大小的数组](https://www.lintcode.com/problem/485/?utm_source=sc-libao-thx)

14.[移动零](https://www.lintcode.com/problem/539/?utm_source=sc-libao-thx)

15.[寻找最大值](https://www.lintcode.com/problem/297/?utm_source=sc-libao-thx)

16.[交换数组两个元素](https://www.lintcode.com/problem/484/?utm_source=sc-libao-thx)

17.[Fizz buzz问题](https://www.lintcode.com/problem/9/?utm_source=sc-libao-thx)

18.[冰雹猜想](https://www.lintcode.com/problem/220/?utm_source=sc-libao-thx)

19.[加一](https://www.lintcode.com/problem/407/?utm_source=sc-libao-thx)

20.[回文数II](https://www.lintcode.com/problem/807/?utm_source=sc-libao-thx)

21.[整数排序](https://www.lintcode.com/problem/463/?utm_source=sc-libao-thx)

22.[寻找素数](https://www.lintcode.com/problem/298/?utm_source=sc-libao-thx)

23.[数组第二大数](https://www.lintcode.com/problem/479/?utm_source=sc-libao-thx)

24.[主元素](https://www.lintcode.com/problem/46/?utm_source=sc-libao-thx)

25.[杨辉三角](https://www.lintcode.com/problem/768/?utm_source=sc-libao-thx)

26.[旋转数组](https://www.lintcode.com/problem/1334/?utm_source=sc-libao-thx)

27.[回文数II](https://www.lintcode.com/problem/767/?utm_source=sc-libao-thx)

28.[分解质因数](https://www.lintcode.com/problem/235/?utm_source=sc-libao-thx)

29.[反转字符串中的单词](https://www.lintcode.com/problem/53/?utm_source=sc-libao-thx)

30.[数组剔除元素后的乘积](https://www.lintcode.com/problem/50/?utm_source=sc-libao-thx)

**阶段四：字符串与循环**

**①考察类型**

考察字符串操作，例如判断回文串、求子串等问题

**②必刷题目**

31.[旋转字符串](https://www.lintcode.com/problem/8/?utm_source=sc-libao-thx)

32.[回文数](https://www.lintcode.com/problem/491/?utm_source=sc-libao-thx)

33.[大小写转换II](https://www.lintcode.com/problem/146/?utm_source=sc-libao-thx)

34.[最后一个单词的长度](https://www.lintcode.com/problem/422/?utm_source=sc-libao-thx)

35.[最大字母](https://www.lintcode.com/problem/353/?utm_source=sc-libao-thx)

36.[首字母大写](https://www.lintcode.com/problem/936/?utm_source=sc-libao-thx)

37.[转换字符串到整数](https://www.lintcode.com/problem/241/?utm_source=sc-libao-thx)

38.[字符串查找](https://www.lintcode.com/problem/13/?utm_source=sc-libao-thx)

39.[转换成小写字母](https://www.lintcode.com/problem/1535/?utm_source=sc-libao-thx)

40.[两字符串和](https://www.lintcode.com/problem/1343/?utm_source=sc-libao-thx)

41.[最长单词](https://www.lintcode.com/problem/133/?utm_source=sc-libao-thx)

**阶段五：栈与队列**

**①考察类型**

栈与队列，主要考察栈和队列的特性，调用库来完成题目要求，或简单实现，比如括号匹配等问题

**②必刷题目**

42.[小括号匹配](https://www.lintcode.com/problem/263/?utm_source=sc-libao-thx)

43.[有效的括号序列](https://www.lintcode.com/problem/423/?utm_source=sc-libao-thx)

44.[实现栈](https://www.lintcode.com/problem/495/?utm_source=sc-libao-thx)

45.[队列维护](https://www.lintcode.com/problem/492/?utm_source=sc-libao-thx)

46.[二阶阶乘](https://www.lintcode.com/problem/771/?utm_source=sc-libao-thx)

**阶段六：简单递归**

**①考察类型**

递归类问题，超简单的那种，比如斐波那契

**②必刷题目**

47.[斐波那契数列](https://www.lintcode.com/problem/366/?utm_source=sc-libao-thx)

48.[二叉树的前序遍历](https://www.lintcode.com/problem/66/?utm_source=sc-libao-thx)

49.[二叉树的中序遍历](https://www.lintcode.com/problem/67/?utm_source=sc-libao-thx)

50.[二叉树的后序遍历](https://www.lintcode.com/problem/68/?utm_source=sc-libao-thx)