IOI2013**中国国家集训队作业 CODEFORCES题目泛做**

(截止日期：第一部分11月3日，第二部分冬令营前10天，具体待定)

教练：胡伟栋 唐文斌

提交方式: 通过tsinsen.com提交，将开启提交窗口

本次作业包括试题准备和泛做两部分。每位选手原则上应完成全部作业。

**第一部分：试题准备**

这一部分的截止日期为11月10日，未能按时完成的根据完成时间酌情扣分，扣分上限为全部作业分数。

作业内容：每个准备翻译两道CODEFORCES的试题，每人需要翻译的试题见下表中，将翻译好的试题添加到清橙评测系统中。试题的编辑方法见<http://tsinsen.com/help/newproblem.page>。要求：

1. 按试题的原本意思准确翻译，语言优美；
2. 试题标题使用原试题标题；
3. 试题关键字写试题所考查的算法；
4. 试题来源写：CODEFORCES ???，其中???表示题号，如CODEFORCES 240F；
5. 题目包含完整的问题描述、输入格式、输出格式、样例输入、样例输出、数据规模和约定等部分，使用清橙的格式化后试题可正常阅读；
6. 至少20个数据，数据有梯度、有区分度，包含至少两个可以手算的数据；
7. 提交好正确的参与程序，此参考程序必须在CODEFORCES上测试通过；
8. 试题设置为共享。

**第二部分：试题泛做**

这一部分的截止日期为冬令营前10天。

作业内容：每人做完表格中所有试题，提交到CODEFORCES上通过，并在清橙评测系统上提交通过，并填写表格中的题目大意（无需背景，说明模型即可）、算法讨论/说明、通过情况。在清橙作业中提交最终表格。

**[泛做表格] (完成情况: \_\_ /100)**

**CODEFORCES用户ID: \_\_\_\_\_\_**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **编号** | **负责人** | **题目名称** | **题目大意** | **算法讨论** | **Status** |
| 7E | 贾志鹏 | Defining Macros |  |  | Accepted |
| 8D | 贾志鹏 | Two Friends |  |  | Other |
| 8E | 王康宁 | Beads |  |  |  |
| 10E | 王康宁 | Greedy Change |  |  |  |
| 15E | 陈立杰 | Triangles |  |  |  |
| 17E | 陈立杰 | Palisection |  |  |  |
| 17C | 余翔 | Balance |  |  |  |
| 19E | 余翔 | Fairy |  |  |  |
| 23D | 杨志灿 | Tetragon |  |  |  |
| 23E | 杨志灿 | Tree |  |  |  |
| 26E | 向鹏达 | Multithreading |  |  |  |
| 28D | 向鹏达 | Do not fear, DravDe is kind |  |  |  |
| 30D | 罗雨屏 | Kings Problem? |  |  |  |
| 30E | 罗雨屏 | Tricky and Clever Password |  |  |  |
| 32E | 乔明达 | Hide-and-Seek |  |  |  |
| 35E | 乔明达 | Parade |  |  |  |
| 36E | 朱新瑞 | Two paths |  |  |  |
| 37E | 朱新瑞 | Trial for Chief |  |  |  |
| 39C | 罗干 | Moon Craters |  |  |  |
| 39A | 罗干 | C\*++ Calculations |  |  |  |
| 39E | 龙浩民 | What Has Dirichlet Got to Do with That? |  |  |  |
| 40E | 龙浩民 | Number Table |  |  |  |
| 43E | 谭震 | Race |  |  |  |
| 44J | 谭震 | Triminoes |  |  |  |
| 45G | 毕克 | Prime Problem |  |  |  |
| 45E | 毕克 | Director |  |  |  |
| 46F | 黎文杰 | Hercule Poirot Problem |  |  |  |
| 47E | 黎文杰 | Cannon |  |  |  |
| 49E | 王若松 | Common ancestor |  |  |  |
| 51F | 王若松 | Caterpillar |  |  |  |
| 53E | 王启圣 | Dead Ends |  |  |  |
| 57D | 王启圣 | Journey |  |  |  |
| 64H | 汤沛雯 | Table Bowling |  |  |  |
| 64G | 汤沛雯 | Path Canonization |  |  |  |
| 67E | 钱雨杰 | Save the City! |  |  |  |
| 67C | 钱雨杰 | Sequence of Balls |  |  |  |
| 70D | 王迪 | Professors task |  |  |  |
| 70E | 王迪 | Information Reform |  |  |  |
| 72F | 高胜寒 | Oil |  |  |  |
| 72A | 高胜寒 | Goshtasp, Vishtasp and Eidi |  |  |  |
| 72E | 雷凯翔 | Ali goes shopping |  |  |  |
| 75E | 雷凯翔 | Ships Shortest Path |  |  |  |
| 76F | 郭志芃 | Tourist |  |  |  |
| 76A | 郭志芃 | Gift |  |  |  |
| 77E | 罗剑桥 | Martian Food |  |  |  |
| 79D | 罗剑桥 | Password |  |  |  |
| 81E | 郑舒冉 | Pairs |  |  |  |
| 82E | 郑舒冉 | Corridor |  |  |  |
| 83E | 孙伟峻 | Two Subsequences |  |  |  |
| 85E | 孙伟峻 | Guard Towers |  |  |  |
| 86E | 王子昱 | Long sequence |  |  |  |
| 89D | 王子昱 | Space mines |  |  |  |
| 91D | 国家琦 | Grocers Problem |  |  |  |
| 93D | 国家琦 | Flags |  |  |  |
| 97C | 杜瑜皓 | Winning Strategy |  |  |  |
| 97A | 杜瑜皓 | Domino |  |  |  |
| 98D | 魏鑫鼎 | Help Monks |  |  |  |
| 98C | 魏鑫鼎 | Help Greg the Dwarf |  |  |  |
| 100G | 孙猛 | Name the album |  |  |  |
| 100F | 孙猛 | Polynom |  |  |  |
| 100E | 温和 | Lamps in a Line |  |  |  |
| 101E | 温和 | Candies and Stones |  |  |  |
| 103E | 胡渊鸣 | Buying Sets |  |  |  |
| 105E | 胡渊鸣 | Lift and Throw |  |  |  |
| 107D | 刘定峰 | Crime Management |  |  |  |
| 113D | 刘定峰 | Museum |  |  |  |
| 115D | 高远 | Unambiguous Arithmetic Expression |  |  |  |
| 120I | 高远 | Luck is in Numbers |  |  |  |
| 123E | 陈文潇 | Maze |  |  |  |
| 125E | 陈文潇 | MST Company |  |  |  |
| 130J | 彭天翼 | Date calculation |  |  |  |
| 130I | 彭天翼 | Array sorting |  |  |  |
| 132E | 许昊然 | Bits of merry old England |  |  |  |
| 138D | 许昊然 | World of Darkraft |  |  |  |
| 140F | 钟泽轩 | New Year Snowflake |  |  |  |
| 147B | 钟泽轩 | Smile House |  |  |  |
| 152D | 成羽丰 | Frames |  |  |  |
| 153B | 成羽丰 | Binary notation |  |  |  |
| 162C | 李煜东 | Prime factorization |  |  |  |
| 162F | 李煜东 | Factorial zeros |  |  |  |
| 163D | 黄嘉泰 | Large Refrigerator |  |  |  |
| 167E | 黄嘉泰 | Wizards and Bets |  |  |  |
| 171H | 李凌霄 | A polyline |  |  |  |
| 175E | 李凌霄 | Power Defence |  |  |  |
| 176D | 吕可凡 | Hyper String |  |  |  |
| 178F2 | 吕可凡 | Representative Sampling (30 points) |  |  |  |
| 178E3 | 何琦 | The Beaver's Problem - 2 (50 points) |  |  |  |
| 180B | 何琦 | Divisibility Rules |  |  |  |
| 185D | 李凌劼 | Visit of the Great |  |  |  |
| 187D | 李凌劼 | BRT Contract |  |  |  |
| 188H | 陈睿 | Stack |  |  |  |
| 196D | 陈睿 | The Next Good String |  |  |  |
| 198E | 钱迪晨 | Gripping Story |  |  |  |
| 200E | 钱迪晨 | Tractor College |  |  |  |
| 200A | 李宇轩 | Cinema |  |  |  |
| 201E | 李宇轩 | Thoroughly Bureaucratic Organization |  |  |  |
| 201D | 孟凡航 | Brand New Problem |  |  |  |
| 204E | 孟凡航 | Little Elephant and Strings |  |  |  |
| 207B1 | 龚拓宇 | Military Trainings (20 points) |  |  |  |
| 207A2 | 龚拓宇 | Beaver's Calculator (30 points) |  |  |  |
| 207A1 | 张闻涛 | Beaver's Calculator (20 points) |  |  |  |
| 209C | 张闻涛 | Trails and Glades |  |  |  |
| 212B | 孙伟 | Polycarpus is Looking for Good Substrings |  |  |  |
| 212D | 孙伟 | Cutting a Fence |  |  |  |
| 212C | 周誉昇 | Cowboys |  |  |  |
| 213E | 周誉昇 | Two Permutations |  |  |  |
| 217C | 许瀞云 | Formurosa |  |  |  |
| 229E | 许瀞云 | Gifts |  |  |  |