## Review Form

**Authors’s Name:\_\_\_\_\_\_魏家栋\_\_\_\_\_\_\_ Author’s Student No.: \_\_\_\_\_\_2017011445\_\_\_\_\_\_\_**

**Reviewer’s Name:\_\_\_\_\_\_\_李晨昊\_\_\_\_\_\_ Reviewer’s Student No.: \_\_\_\_\_\_2017011466\_\_\_\_\_\_\_ Date：4-8**

|  |  |
| --- | --- |
| Makefile  (10%) | 10 |
| Review Comments | 符合makefile规范 |
| Compilation  (编译正确) (10%) | 10 |
| Review Comment | 编译成功 |
| Correctness of Results  (结果正确) (40%) | 39 |
| Review Comment | 结果正确  如果输出最小生成树的长度就更好了 |
| Naming Convention  (变量命名合理) (5%) | 3 |
| Review Comment | 两个单词之间应该有适当的分割，例如newnode应该写成newNode或者new\_node  GRAPH命名不合理，应为graph或者Graph |
| Code Formatting  (代码格式合理) (5%) | 5 |
| Review Comment | 建议一行代码不要打大括号，真的丑 |
| Code Comments  (代码注释合格) (5%) | 5 |
| Review Comment | 代码注释合格 |
| Other Coding Style and efficiency (代码运行效率) (10%) | 8 |
| Review Comment | 一般而言kruskal算法是预先对边进行排序，而不是使用堆来选择权值最小的边。虽然使用堆在最好情况下时间复杂度是O(VlgV)，但是通常情况下运行速度慢一些。 |
| OOP Design Style  (15%) | 10 |
| Review Comment | 减少全局变量的使用，例如MAX\_DISTANCE可以设置为MST类的静态常量，而非全局常量  使用继承可以减少一些代码量，但是虚函数在这里没有实际意义(因为并没有利用到多态)。  通常而言虚基类的析构函数应该是虚函数。 |
| Total Score (up to 100) | 90 |
| Overall Review Comments | 了解一下stl的make\_heap，pop\_heap，push\_heap三个函数。stl的堆并不是只有priority\_queue。 |

**NOTE:**

1. For coding styles including naming, formatting, code comments, etc., please refer to the Google C++ Style Guide. You may stick to your own coding style if you already have one, provided that your coding style is easy to read and understand by others.

(<http://google-styleguide.googlecode.com/svn/trunk/cppguide.xml>)

2. OOP design: easy for code reuse (代码复用); easy for extension and adaptability to future change for new user requirements (易于扩展，适应未来用户需求的改变). We will learn these OOP design features throughout this semester.

3. The reviewer (评阅人) is responsible for filling in the review form with both credits (分数) and detailed comments/suggestions (评价/建议) for further improvements (改进), and then returns the review form to the author of the code.

4. Finally, each student needs to submit the improved (改进后的) source code according to the comments, as well as a .doc or .pdf file including the returned review forms and statements on the revised code in reply to the reviewers’ comments.

5. Please comply with “**Rules for Submission** (see Lecture 1: Exercises)” when submitting your homework.