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Name your work as StudentID.c and upload it to the system. Make sure that your program is running in the Ubuntu environment. For the correct output format, carefully review the sample input and output files provided. You can perform the following operations to check the accuracy of your program.

1. Compile your program using the gcc command.
2. Using the `./a.out <input1> myOutput1.txt` command, run your program with the input1.txt file and save your output to myOutput1.txt file.
3. Automatically compare the true output and your output using the `diff myOutput1.txt output1.txt` command. If there is no warning on the command prompt after entering this command, this means that your program is working correctly for these values. If you see a warning, this indicates a problem with your output.

A screenshot of a terminal window with a dark title bar. The title bar text is 'pk@dellPC: ~/Desktop/BLM'. The terminal has a yellow background. It shows two lines of command history: 'pk@dellPC:~/Desktop/BLM\$ diff myOutput1.txt output1.txt' and 'pk@dellPC:~/Desktop/BLM\$'. A black cursor is positioned at the end of the second line.

```
pk@dellPC: ~/Desktop/BLM
pk@dellPC:~/Desktop/BLM$ diff myOutput1.txt output1.txt
pk@dellPC:~/Desktop/BLM$
```

4. Try commands in items 2 and 3 for other input files given to you.

5. Test your program for different inputs you will create yourself. Note that the input files given to you and the input files used during the evaluation may differ from each other.