

How to read the feedback.txt file

The project submission requires two steps. First, you submit your project using the *submit* command on the server, and second, you check the correctness of your program using the *verify* command. The *verify* command will produce a file, e.g. *feedback.txt*, that shows whether your program was compiled and run successfully, and whether your program produces the correct output when we supply a sample test case to your program. This manual will help you understand the feedback that you get in your *feedback.txt* file.

1. After running the command: `verify 90041 projA > feedback.txt` on the server, you will get feedback from our auto-testing system. The feedback is saved in the file that you specify in the command, e.g. in the above command, the name of the file is *feedback.txt*. The feedback shows the output of *sdiff* command that compares your output with the expected output.
2. You may use *cat* or *more* commands to view the feedback file, that is by using one of the following commands:
 - `cat feedback.txt`
 - `more feedback.txt`
3. Alternatively, you may download the *feedback.txt* file to your computer and read it using a text editor. For example, you may use **Sublime Text** as a possible editor.

With some of the text editors, the contents of the *feedback.txt* file could be misaligned, e.g. as shown below:

```
Feedback:
\tYour program ("Nimsys.java") has been submitted successfully.\n
\tCompiling your program with "javac"...\n
\t\tYour program has been result.rtxd successfully :-)\n
Now, it's your responsibility to test your program for correctness!
Here is a simple test case, and the results:\n
=====
Test for input file: in1
Expected results:\t\t\t\t\t\t\tYour results:
Welcome to Nim                               Welcome to Nim

Please enter Player 1's name:                   Please enter Player 1's name:
Please enter Player 2's name:                   Please enter Player 2's name:
Please enter upper bound of stone removal:      Please enter upper bound of stone removal:
Please enter initial number of stones:          Please enter initial number of stones:

12 stones left: * * * * *
Luke's turn - remove how many?

9 stones left: * * * * *
Hans's turn - remove how many?

12 stones left: * * * * *
Luke's turn - remove how many?

9 stones left: * * * * *
Hans's turn - remove how many?
```

The misalignment may be because of the indents generated by the *sdiff* command. The *sdiff* command uses TAB to indent, which assumes that editors show **TAB with width of 8**. As a result, to correct the feedback alignment, the TAB width of your favourite editor needs to be changed to 8. For example, if you are using Sublime Text, the screen-shot below shows how to do this:

Example 1:

File a.txt has the following two lines:

```
apple
orange
```

and b.txt contains one line:

```
apple
```

`sdiff a.txt b.txt` will show the difference as:

```
apple      apple
orange <
```

the < means that “the files differ and only the first file contains the line”.

Example 2:

File a.txt has two lines:

```
apple
orange
```

and c.txt's second line is different:

```
apple
banana
```

`sdiff a.txt c.txt` will show the difference as:

```
apple      apple
orange | banana
```

The | means that “the corresponding lines differ”.

Example 3

This one is trickier. File a.txt has two lines:

```
apple
orange
```

and d.txt has almost the same content, but without the third blank line, i.e., a.txt has a '\n' in the end of second line, and d.txt does not have '\n' in the end of second line:

```
apple
orange
```

the `sdiff a.txt d.txt` will show the difference as:

```
apple      apple
orange    / orange
```

The `/` means that “the corresponding lines differ, and only the second line is incomplete”, where *incomplete line* means that a line does not end with a newline character `\n`.

We can use a hex/binary code viewer, e.g. by using `xxd` command on Engineering Server to view the binary representation of `a.txt` and `d.txt`. See the following:

`xxd a.txt` will give us:

```
6170 706c 650a 6f72 616e 6765 0a
```

`xxd d.txt` will give us:

```
6170 706c 650a 6f72 616e 6765
```

where `0a` is the ASCII hexadecimal representation of newline character `\n`. For more about ASCII code, read this [webpage](#).