

Testing Document

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Tabs2XML

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Test Cases

The output files for each case are included in the GitHub repository for reference.

Test Case 1: Course Wiki

```
|-----0----|-0-----|
|-----0--0--|-0-----|
|-----1-----1-|-1-----|
|----2-----|-2-----|
|--2-----|-2-----|
|-0-----|-0-----|
```

This is the example tablature text provided by the EECS2311 wiki. It is the base test case that several others are based on.

Test Case 2: Edited Numbers

```
|-----1----|-2-----|
|-----1--2--|-1-----|
|-----2-----0-|-0-----|
|----0-----|-1-----|
|--0-----|-0-----|
|-1-----|-2-----|
```

This case is based on Test Case 1, but with edited number values. Meant to test how the program handles differing number values.

Test Case 3: Edited Heights

```
|-1-----|-2-----|
|--0-----1-2--|-1-----|
|-----|-0-----|
|----0--1-----|-1-----|
|-----|-0-----|
|-----2-----0-|-2-----|
```

This case is based on Test Case 1 and 2. In this case, the numbers are shifted around vertically. This is used to test how the program handles numbers on different lines.

Test Case 4: Empty

```
|-----|-----|
|-----|-----|
|-----|-----|
|-----|-----|
```

```
|-----|-----|
|-----|-----|
```

This case is meant to test how the program handles an empty tab file.

Test Case 5: Incorrect Format

```
|-----|-----|
|-----|-----|
|-----|-----|-----|
|-----|-----|
text should result in an error
|-----|-----|
```

This case is meant to test how the program handles a tab file of incorrect formatting. These formatting errors include incorrect amounts of '-' characters and non-tablature text in one of the lines.

Test Case 6: Not Enough Lines

```
|-----0----|0-----|
|-----0--0--|0-----|
|-----1-----1-|1-----|
|----2-----|2-----|
|---2-----|2-----|
```

This case is based on Test Case 1, but with the bottom line removed. Meant to test how the program handles the input error of missing a line.

Test Case 7: Too Many Lines

```
|-----0----|0-----|
|-----0--0--|0-----|
|-----1-----1-|1-----|
|----2-----|2-----|
|---2-----|2-----|
|-0-----|0-----|
|-0-----|0-----|
```

This case is based on Test Case 1, but with an extra bottom line added. Meant to test how the program handles the input error of having too many lines.

Why These Test Cases?

All of the cases above, when combined, provide sufficient testing for the program from every angle of use. Test Case 1 serves as the most basic test case, while the subsequent cases serve to test the program under different conditions. Cases 1-4 test the program's functionality under expected conditions, while cases 4-6 test the program's robustness in several different error scenarios (they test the program's ability to spot erroneous inputs and notify the user of their specific mistake).