

## Practice Exercise #10: One-Line Pretty Printer

[http://www.comp.nus.edu.sg/~cs1020/4\\_misc/practice.html](http://www.comp.nus.edu.sg/~cs1020/4_misc/practice.html)

Reference: Week 2 OOP Part 1

### Objectives:

1. Using **String** class

### Task statement:

In this exercise, you are to write a Java program **PrettyPrinter.java** to read a string and perform the following:

- Remove heading and trailing spaces from the string; and
- Replace a block of consecutive spaces with a single space.

For example, given the following string:

```
"      J.A. Gosling      invented  *Java  *    in 1994.    "
```

the pretty-printed string would be:

```
"J.A. Gosling invented *Java * in 1994."
```

You should use **String** methods and no other methods. There could be many ways to solve this exercise. You are encouraged to discuss on the IVLE forum.

### Sample runs:

In the sample runs below, a `|` is shown to indicate the end of the input string; this is for visual effect only, the user does not enter this character. In the output, the character `|` must be printed before and after the new string; note that this character `|` is not part of the new string.

Enter a line below:

```
J.A. Gosling      invented  *Java  *    in 1994.    |
```

Pretty-printed line:

```
|J.A. Gosling invented *Java * in 1994. |
```

Enter a line below:

```
XX  1 234  + ? /  -H-  o ww    Z  |
```

Pretty-printed line:

```
|XX 1 234 + ? / -H- o ww Z |
```