Practice Lessons

Oct. 16 2025



1). Infix to Postfix

Refer to the algorithms in the slides:

https://josephcclin.github.io/courses/data_structures/slides/ds_expression_evaluation.pdf

- Page 19: the postfix algorithm
- Page 11–14: the evaluation algorithm
- Get the input *infix expression*, and then convert it into its *postfix* expression and then output such a **postfix expression** as well as the **value** of the evaluation.



Sample Input & Output

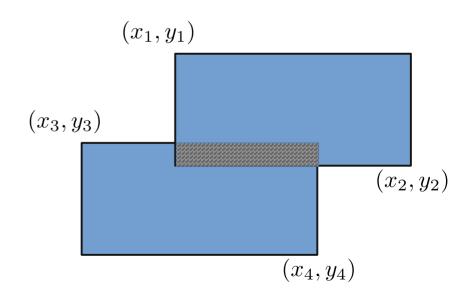
• Sample input:

Sample output:



2). Rectangles' Area

- **Input**: 8 integers: *x*₁, *y*₁, *x*₂, *y*₂, *x*₃, *y*₃, *x*₄, *y*₄.
- **Output**: the area of the overlapping parts of the two rectangles.



*Rakuten Data Scientist Position Online Codility Test



Sample Input & Output

• Sample input:

0 1 2 3 4 5 6 7

• Sample output:

0

• Sample input:

0 5 8 1 3 4 10 0

Sample output:

15

