Dijkstra's Shunting-Yard Algorithm

Converts ordinary (infix) notation to reverse
Polish

Output (RPN)

Input (infix)

3+5

Dijkstra's Shunting-Yard Algorithm Converts ordinary (infix) notation to reverse Output (RPN) Input (infix)

Dijkstra's Shunting-Yard Algorithm Converts ordinary (infix) notation to reverse Dalid Output (RPN) Input (infix) Stack for operators

Dijkstra's Shunting-Yard Algorithm Converts ordinary (infix) notation to reverse Polish Output (RPN) Input (infix)

Dijkstra's Shunting-Yard Algorithm Converts ordinary (infix) notation to reverse Output (RPN) Input (infix)

Wes
Input numbers (and variables) go straight
to output
Input (goes to stack
Input) pops stack to output
Input) pops stack to output, as far as matchina (
Input function or infix operator opes
to stack but first pops stack to output
up to - but not including - something
of lower precedence
Input function or infix operator opes to stack but first pops stack to output up to - but not including - something of lower precedence

· End of input pops stack to output

e.a.

(3 + 2)x/(n*x+y*y) + 8

e.a.

 $3 + 2) \times (n \times n + y \times y) + 8$

e.g.
+ 2)*/(x*x + y*y) + 8

e.a

3

2)*/(n*x+y*y)+8

+ (

e.a

32

)*/(n*x + y*y) + 8

+ (

e.a

32+

* (n*x + y*y) + 8

Brackets are never output, e.9

x*x + y*y) + 8

32+

Exercise: Finish it