

Starting proposition is:

$$a * (b - c / d * e) / f - g * h$$

Rules are as follows:

- 1) I calculate the importance of each operator, and at each step I choose the one with the least importance
- 2) Then I split my proposition to the left of the operator, and to the right of the operator
- 3) I repeat step 1, 2 until my current proposition is empty
- 4) When connecting nodes, I always connect them first as left child, then as right child
- 5) When opening a paranthesis I increase the importance with 100

Current proposition is:

$$a * (b - c / d * e) / f - g * h$$

The importance of * is 2
The importance of - is 101
The importance of / is 102
The importance of * is 102
The importance of / is 2
The importance of - is 1
The importance of * is 2

The least significant operator is -

=> We create node 1) -

Current proposition is:

$$a * (b - c / d * e) / f$$

The importance of * is 2
The importance of - is 101
The importance of / is 102
The importance of * is 102
The importance of / is 2

The least significant operator is /

=> We create node 2) /

We connect 1) - with 2) /

Current proposition is:

$$a * (b - c / d * e)$$

The importance of * is 2
The importance of - is 101
The importance of / is 102
The importance of * is 102

The least significant operator is *

=> We create node 3) *

We connect 2) / with 3) *

Current proposition is:

$$a$$

The variable is a

We connect 3) * with 4) a

Current proposition is:

$$(b - c / d * e)$$

The importance of - is 101
The importance of / is 102
The importance of * is 102

The least significant operator is -

=> We create node 5) -

We connect 3) * with 5) -

Current proposition is:

$$(b$$

The variable is b

We connect 5) - with 6) b

Current proposition is:

$$c / d * e)$$

The importance of / is 2
The importance of * is 2

The least significant operator is *

=> We create node 7) *

We connect 5) - with 7) *

Current proposition is:

$$c / d$$

The importance of / is 2

The least significant operator is /

=> We create node 8) /

We connect 7) * with 8) /

Current proposition is:

$$c$$

The variable is c

We connect 8) / with 9) c

Current proposition is:

$$d$$

The variable is d

We connect 8) / with 10) d

Current proposition is:

$$e)$$

The variable is e

We connect 7) * with 11) e

Current proposition is:

$$f$$

The variable is f

We connect 2) / with 12) f

Current proposition is:

$$g * h$$

The importance of * is 2

The least significant operator is *

=> We create node 13) *

We connect 1) - with 13) *

Current proposition is:

$$g$$

The variable is g

We connect 13) * with 14) g

Current proposition is:

$$h$$

The variable is h

We connect 13) * with 15) h

Polish notation is:

$$-/*a-b*/cdef*gh$$

Tree representation is:

