Starting proposition is:

¬ A ^ (B ∨ C) ∨ D ^ ¬ E

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 propositon 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

The importance of ¬ is 3
The importance of ^ is 2
The importance of ∨ is 101
The importance of ∨ is 1
The importance of ^ is 2
The importance of ¬ is 3

The least significant operator is /

=> We create node 1) /

Current proposition is:

¬ A ^ (B ∨ C)

The importance of ¬ is 3
The importance of ^ is 2
The importance of ∨ is 101

The least significant operator is ^

=> We create node 2) ^

We connect 1) / with 2) ^

Current proposition is:

¬ A

The importance of ¬ is 3

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)

The importance of ∨ is 101

The least significant operator is /

=> We create node 5) /

We connect 2) ^ with 5) /

Current proposition is:

(B

The variable is B

We connect 5) / with 6) B

Current proposition is:

C)

The variable is C

We connect 5) / with 7) C

Current proposition is:

D ^ ¬ E

The importance of ^ is 2
The importance of ¬ is 3

The least significant operator is ^

=> We create node 8) ^

We connect 1) / with 8) ^

Current proposition is:

D

The variable is D

We connect 8) ^ with 9) D

Current proposition is:

¬ E

The importance of ¬ is 3

The least significant operator is ¬

=> We create node 10) ¬

We connect 8) ^ with 10) ¬

Current proposition is:

E

The variable is E

We connect 10) ¬ with 11) E

Polish notation is:

\/^¬A\/BC^D¬E

Tree representation is: