

# Prune taxa

Suppose we want to remove taxum X.

Let StringA denote the character array of total length M that defines the tree according to the Newick format, and let m be the index of the taxum to be removed:  $\text{StringA}(m) == X$ .

There are two alternatives:

$\text{StringA}(m-1) == "("$

OR

$\text{StringA}(m+1) == ")"$

COUNTER=1;

i=m;

```

if (StringA[m-1]== "("){
    // Right parsing
    while(COUNTER>0) {
        i++;
        if StringA[i]== "("
            COUNTER++;
        if StringA[i]== ")"
            COUNTER--;
    }
}

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if (StringA[m+1]== ")"){
    // Left parsing
    while(COUNTER>0) {
        i--;
        if StringA[i]== "("
            COUNTER--;
        if StringA[i]== ")"
            COUNTER++;
    }
}

```

Remove S[m-1],S[m],S[m+1],S[i];

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## Example

( 1 , ( ( 2 , ( ( ( 4 , 5 ) , ( 9 , 10 ) ) , ( ( 6 , 7 ) , 8 ) ) ) , 3 ) )

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( 1 , ( ( 2 , ( ( ( 4 , 5 ) , ( 9 , 10 ) ) , ( ( 6 , 7 ) , 8 ) ) ) , 3 ) )

Prune taxum 4

## Example

( 1 , ( ( 2 , ( ( ( 4 , 5 ) , ( 9 , 10 ) ) , ( ( 6 , 7 ) , 8 ) ) ) , 3 ) )

Prune taxum 4

( 1 , ( ( 2 , ( ( ( 4 , 5 ) , ( 9 , 10 ) ) , ( ( 6 , 7 ) , 8 ) ) ) , 3 ) )    Count=1

## Example

( 1 , ( ( 2 , ( ( ( 4 , 5 ) , ( 9 , 10 ) ) , ( ( 6 , 7 ) , 8 ) ) ) , 3 ) )

### Prune taxum 4

( 1 , ( ( 2 , ( ( ( 4 , 5 ) , ( 9 , 10 ) ) , ( ( 6 , 7 ) , 8 ) ) ) , 3 ) )      Count=1  
( 1 , ( ( 2 , ( ( ( 4 , 5 ) , ( 9 , 10 ) ) , ( ( 6 , 7 ) , 8 ) ) ) , 3 ) )      Count=0

## Example

( 1 , ( ( 2 , ( ( ( 4 , 5 ) , ( 9 , 10 ) ) , ( ( 6 , 7 ) , 8 ) ) ) , 3 ) )

### Prune taxum 4

( 1 , ( ( 2 , ( ( ( 4 , 5 ) , ( 9 , 10 ) ) , ( ( 6 , 7 ) , 8 ) ) ) , 3 ) )      Count=1  
( 1 , ( ( 2 , ( ( ( 4 , 5 ) , ( 9 , 10 ) ) , ( ( 6 , 7 ) , 8 ) ) ) , 3 ) )      Count=0  
    ( 1 , ( ( 2 , ( ( 5 , ( 9 , 10 ) ) , ( ( 6 , 7 ) , 8 ) ) ) , 3 ) )      Pruned

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Prune taxum 3

Prune taxum 3

( 1 , ( ( 2 , ( ( ( 4 , 5 ) , ( 9 , 10 ) ) , ( ( 6 , 7 ) , 8 ) ) ) , 3 ) )    Count=1

### Prune taxum 3

$(1, ((2, ((4, 5), (9, 10)), ((6, 7), 8))), 3)$  Count=1  
 $(1, ((2, ((4, 5), (9, 10)), ((6, 7), 8))), 3)$  Count=2

### Prune taxum 3

$(1, ((2, ((4, 5), (9, 10)), ((6, 7), 8))), 3)$  Count=1  
 $(1, ((2, ((4, 5), (9, 10)), ((6, 7), 8))), 3)$  Count=2  
 $(1, ((2, ((4, 5), (9, 10)), ((6, 7), 8))), 3)$  Count=3

### Prune taxum 3

( 1 , ( ( 2 , ( ( ( 4 , 5 ) , ( 9 , 10 ) ) , ( ( 6 , 7 ) , 8 ) ) ) , 3 ) )	Count=1
( 1 , ( ( 2 , ( ( ( 4 , 5 ) , ( 9 , 10 ) ) , ( ( 6 , 7 ) , 8 ) ) ) , 3 ) )	Count=2
( 1 , ( ( 2 , ( ( ( 4 , 5 ) , ( 9 , 10 ) ) , ( ( 6 , 7 ) , 8 ) ) ) , 3 ) )	Count=3
( 1 , ( ( 2 , ( ( ( 4 , 5 ) , ( 9 , 10 ) ) , ( ( 6 , 7 ) , 8 ) ) ) , 3 ) )	Count=4

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( 1 , ( ( 2 , ( ( ( 4 , 5 ) , ( 9 , 10 ) ) , ( ( 6 , 7 ) , 8 ) ) ) , 3 ) )	Count=1
( 1 , ( ( 2 , ( ( ( 4 , 5 ) , ( 9 , 10 ) ) , ( ( 6 , 7 ) , 8 ) ) ) , 3 ) )	Count=2
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( 1 , ( ( 2 , ( ( ( 4 , 5 ) , ( 9 , 10 ) ) , ( ( 6 , 7 ) , 8 ) ) ) , 3 ) )	Count=4
( 1 , ( ( 2 , ( ( ( 4 , 5 ) , ( 9 , 10 ) ) , ( ( 6 , 7 ) , 8 ) ) ) , 3 ) )	Count=5

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( 1 , ( ( 2 , ( ( ( 4 , 5 ) , ( 9 , 10 ) ) , ( ( 6 , 7 ) , 8 ) ) ) , 3 ) )	Count=1
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$(1, ((2, ((4, 5), (9, 10)), ((6, 7), 8))), 3)$	Count=4
$(1, ((2, ((4, 5), (9, 10)), ((6, 7), 8))), 3)$	Count=5
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( 1 , ( ( 2 , ( ( ( 4 , 5 ) , ( 9 , 10 ) ) , ( ( 6 , 7 ) , 8 ) ) ) , 3 ) )	Count=5
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( 1 , ( ( 2 , ( ( ( 4 , 5 ) , ( 9 , 10 ) ) , ( ( 6 , 7 ) , 8 ) ) ) , 3 ) )	Count=1

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( 1 , ( ( 2 , ( ( ( 4 , 5 ) , ( 9 , 10 ) ) , ( ( 6 , 7 ) , 8 ) ) ) , 3 ) )	Count=1
( 1 , ( ( 2 , ( ( ( 4 , 5 ) , ( 9 , 10 ) ) , ( ( 6 , 7 ) , 8 ) ) ) , 3 ) )	Count=2
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( 1 , ( ( 2 , ( ( ( 4 , 5 ) , ( 9 , 10 ) ) , ( ( 6 , 7 ) , 8 ) ) ) , 3 ) )	Count=1
( 1 , ( ( 2 , ( ( ( 4 , 5 ) , ( 9 , 10 ) ) , ( ( 6 , 7 ) , 8 ) ) ) , 3 ) )	Count=2
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( 1 , ( ( 2 , ( ( ( 4 , 5 ) , ( 9 , 10 ) ) , ( ( 6 , 7 ) , 8 ) ) ) , 3 ) )	Count=0
( 1 , ( 2 , ( ( ( 4 , 5 ) , ( 9 , 10 ) ) , ( ( 6 , 7 ) , 8 ) ) ) )	Pruned

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