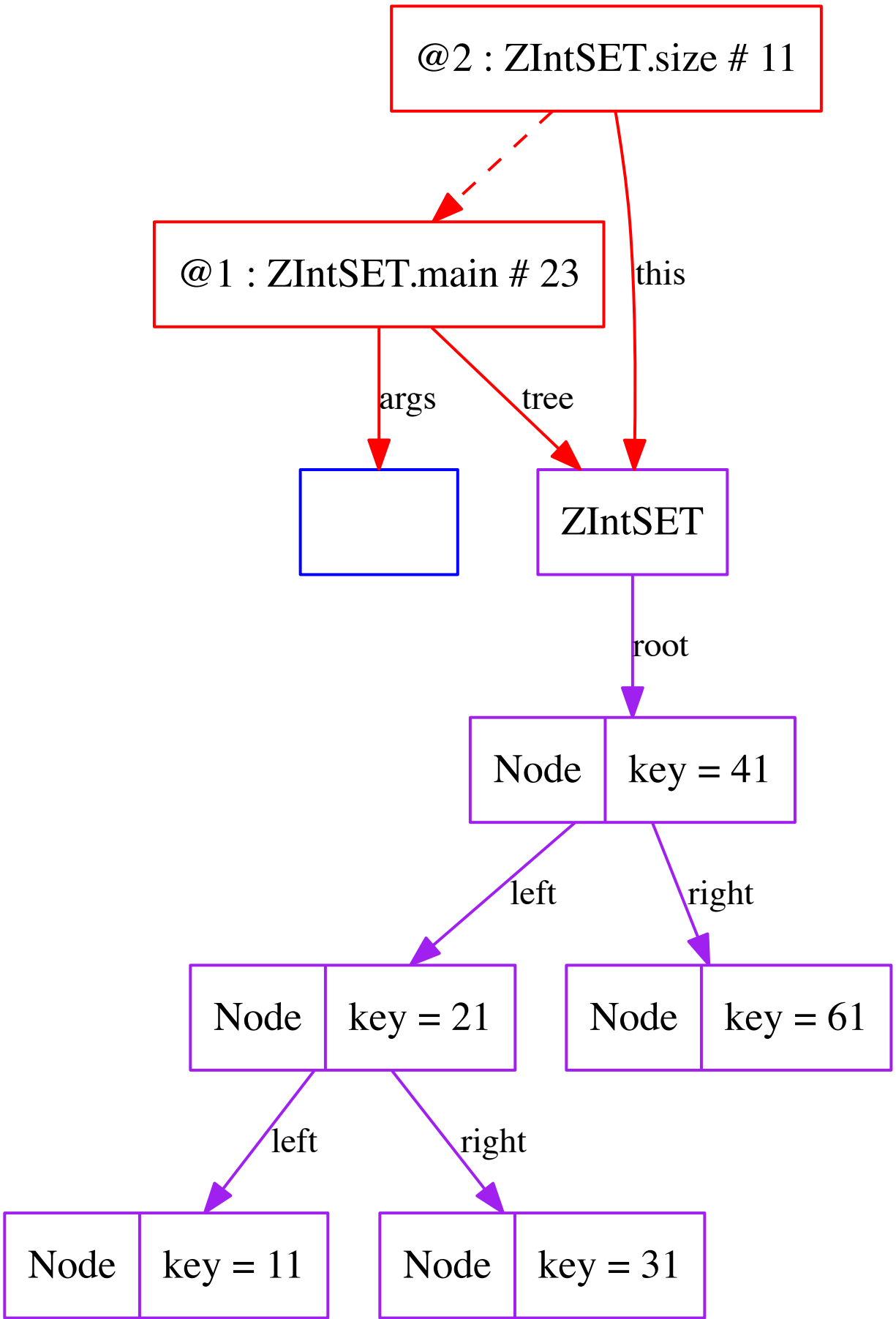
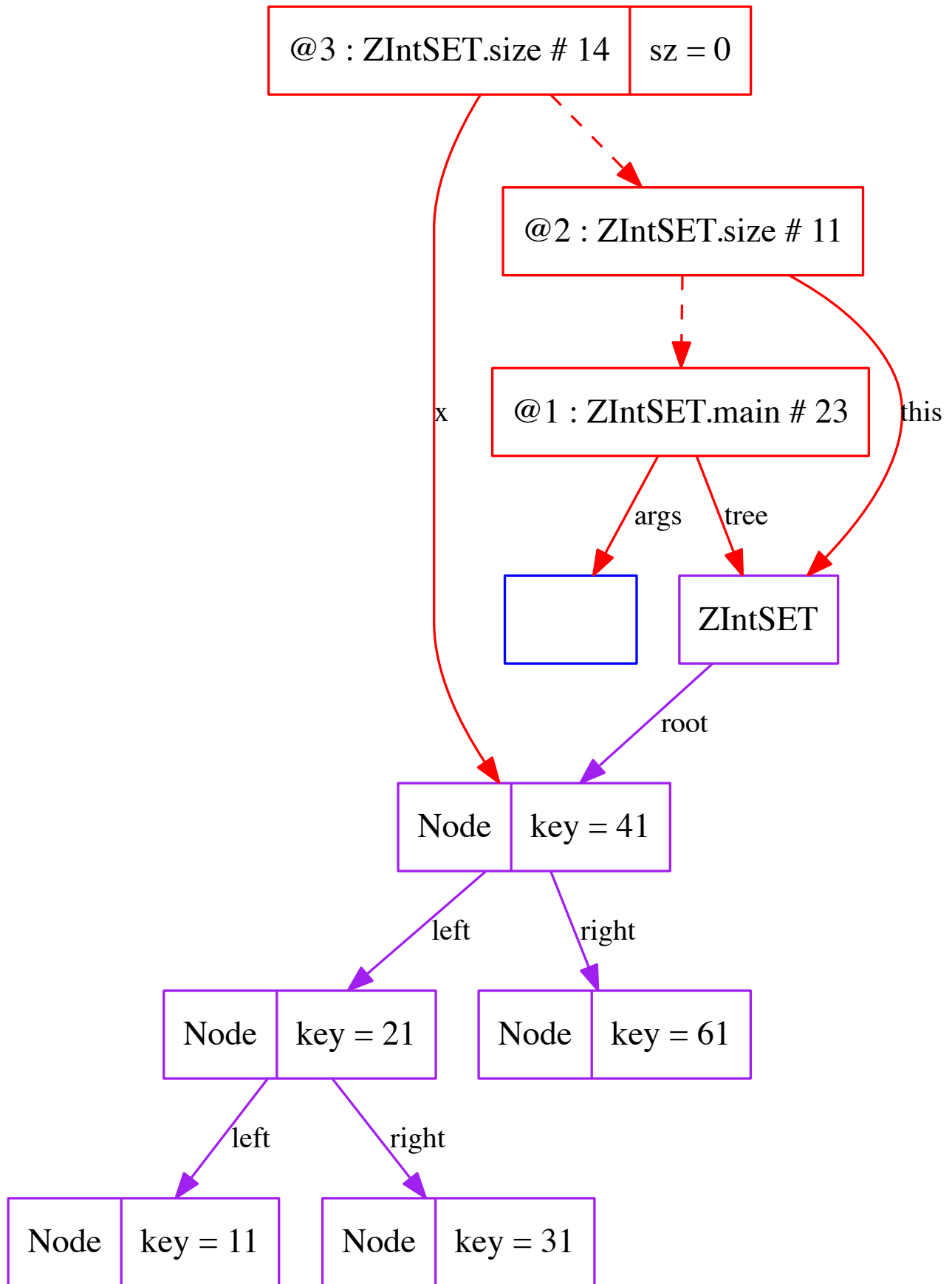
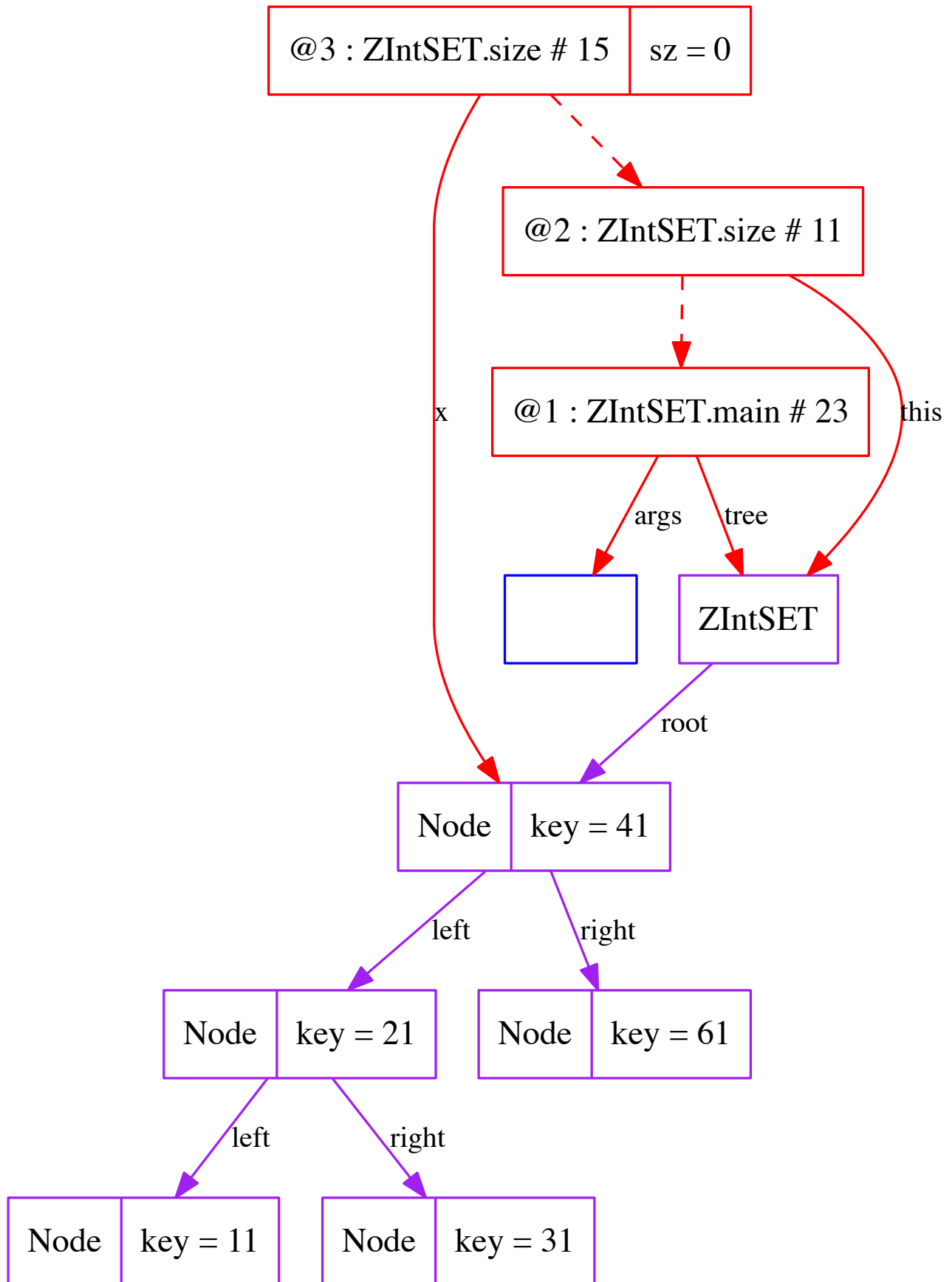
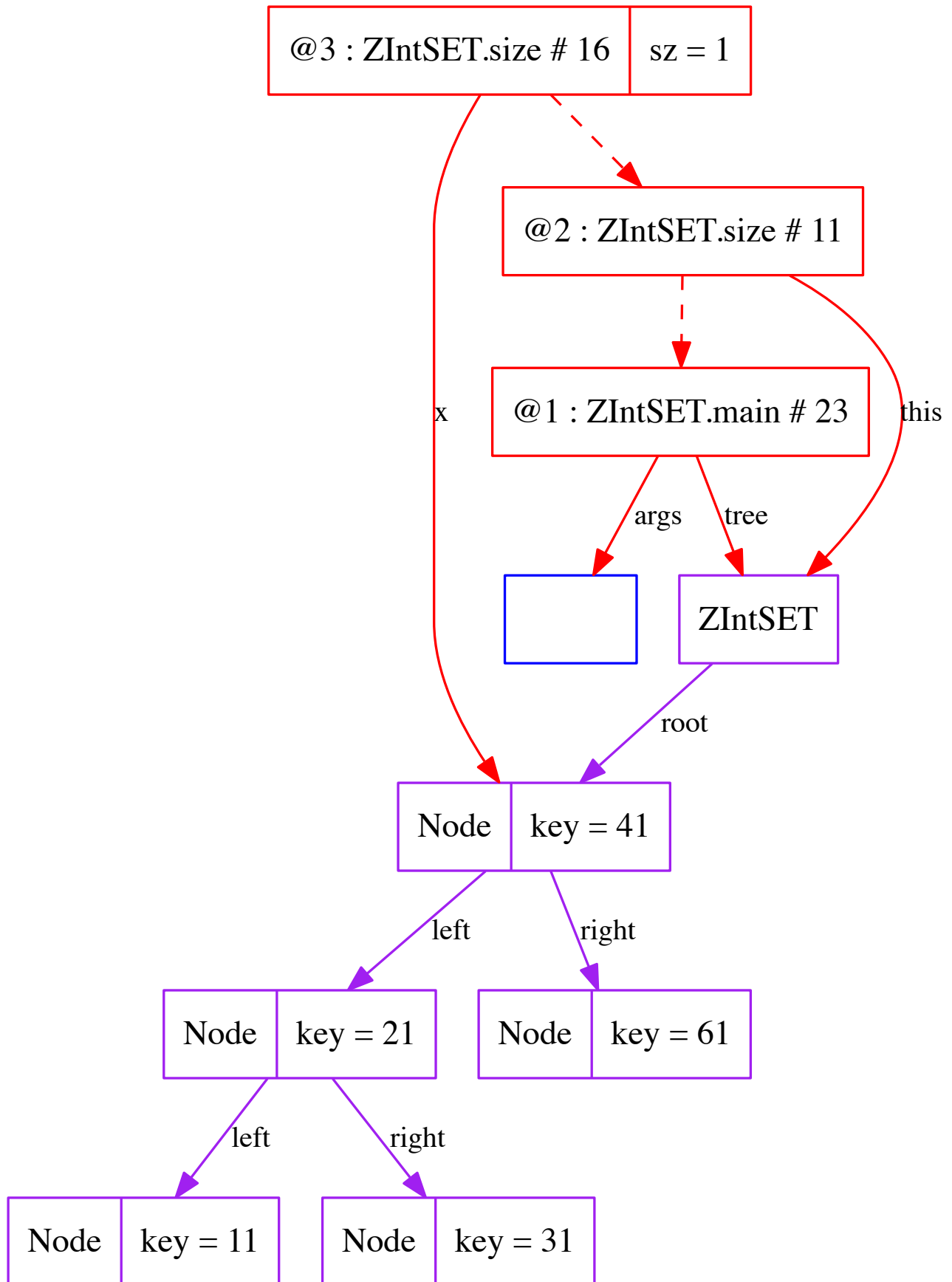


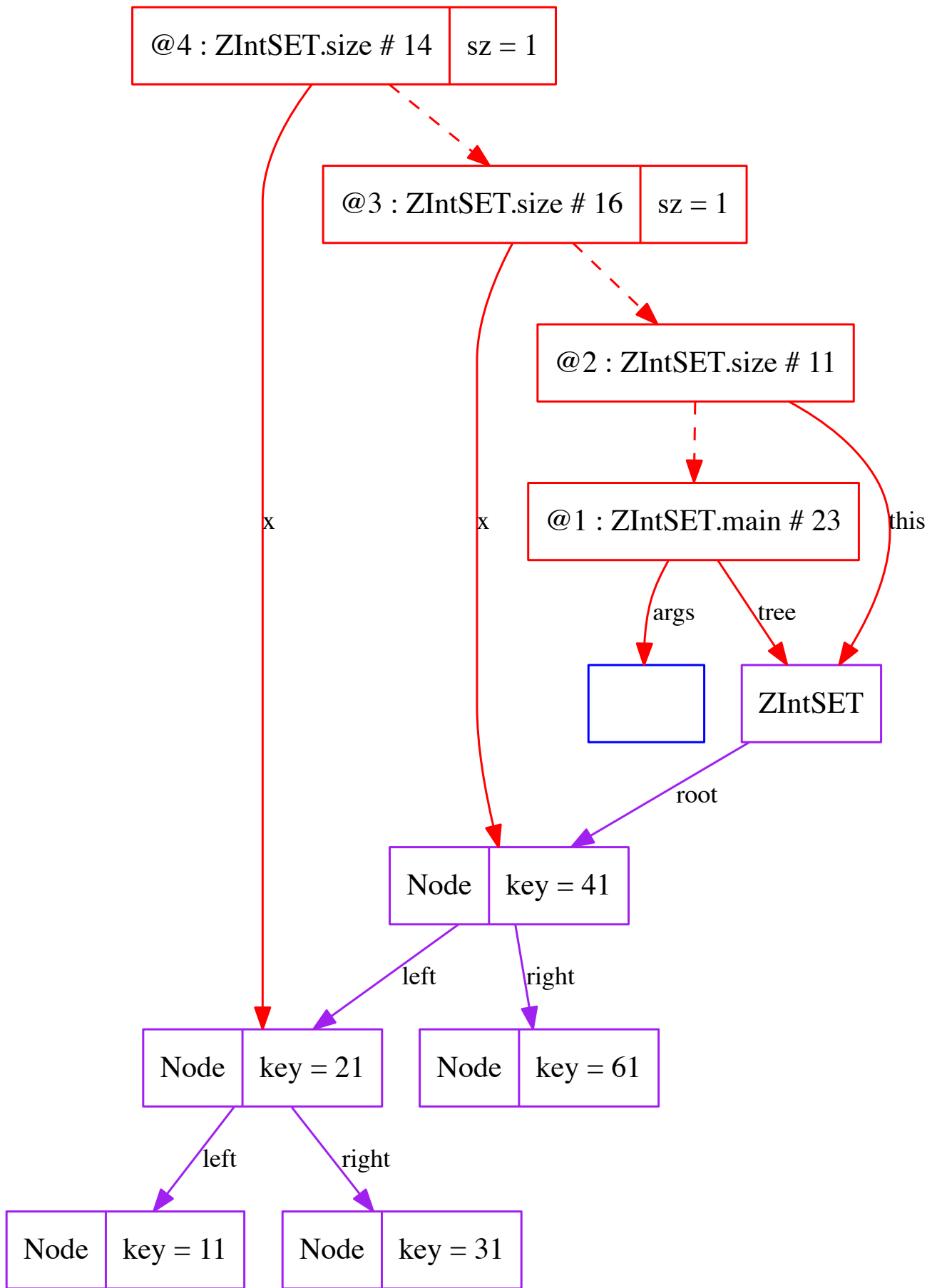
```
3 private Node root;
4 private static class Node {
5     public final int key;
6     public Node left, right;
7     public Node(int key) { this.key = key; }
8 }
9
10 public int size () {
11     return size (root, 0);
12 }
13 private static int size (Node x, int sz) {
14     if (x == null) return sz;
15     sz += 1;
16     sz += size (x.left, sz);
17     sz += size (x.right, sz);
18     return sz;
19 }
20
21 public static void main (String[] args) {
22     ZIntSET tree = ZIntSET.fromString ("41 21 61 11 31");
23     tree.size ();
24 }
25
```

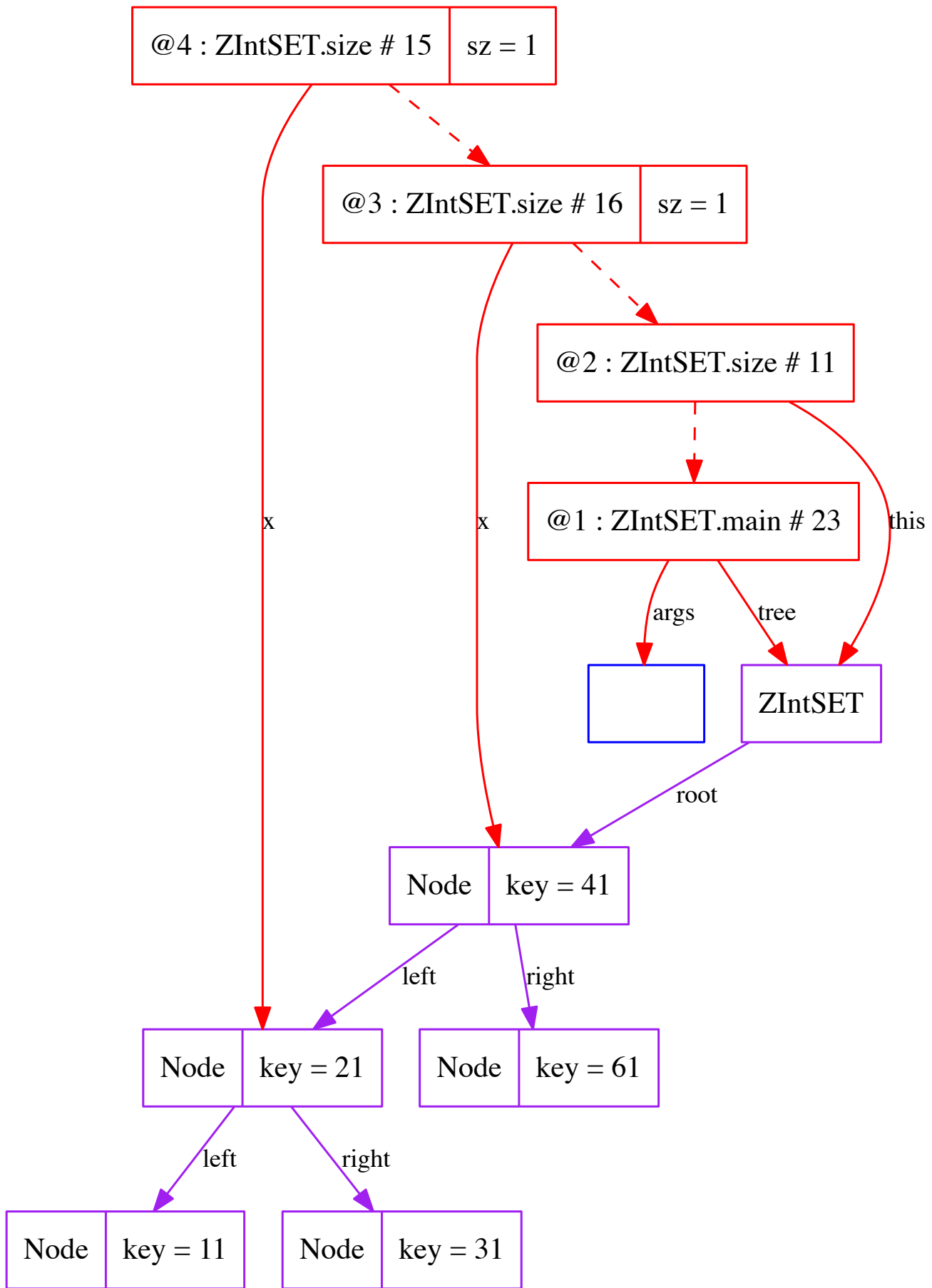


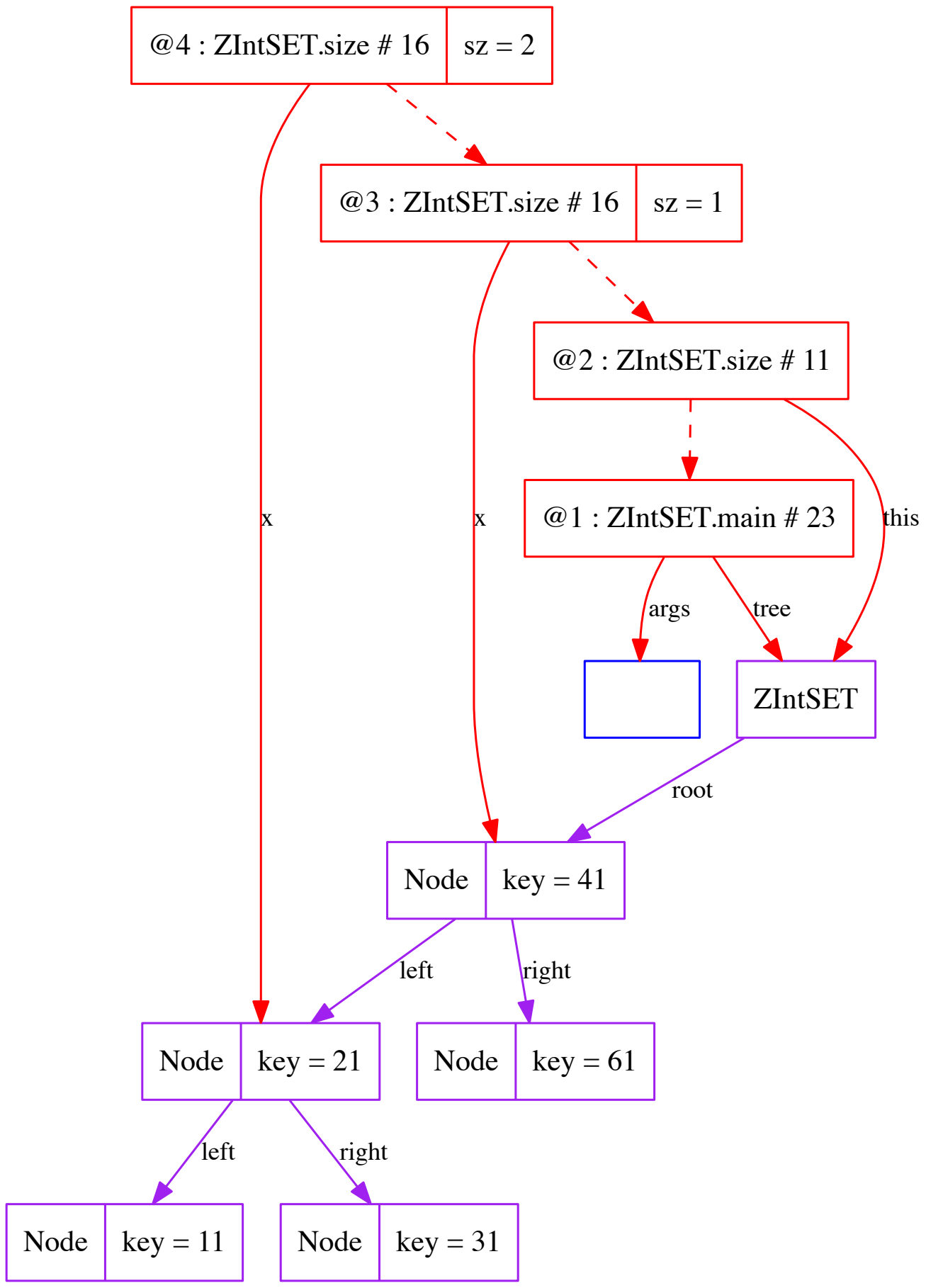














|                        |        |
|------------------------|--------|
| @5 : ZIntSET.size # 14 | sz = 2 |
|------------------------|--------|

|                        |        |
|------------------------|--------|
| @4 : ZIntSET.size # 16 | sz = 2 |
|------------------------|--------|

|                        |        |
|------------------------|--------|
| @3 : ZIntSET.size # 16 | sz = 1 |
|------------------------|--------|

|                        |
|------------------------|
| @2 : ZIntSET.size # 11 |
|------------------------|

|                        |
|------------------------|
| @1 : ZIntSET.main # 23 |
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| ZIntSET |
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|      |          |
|------|----------|
| Node | key = 41 |
|------|----------|

|      |          |
|------|----------|
| Node | key = 21 |
|------|----------|

|      |          |
|------|----------|
| Node | key = 61 |
|------|----------|

|      |          |
|------|----------|
| Node | key = 11 |
|------|----------|

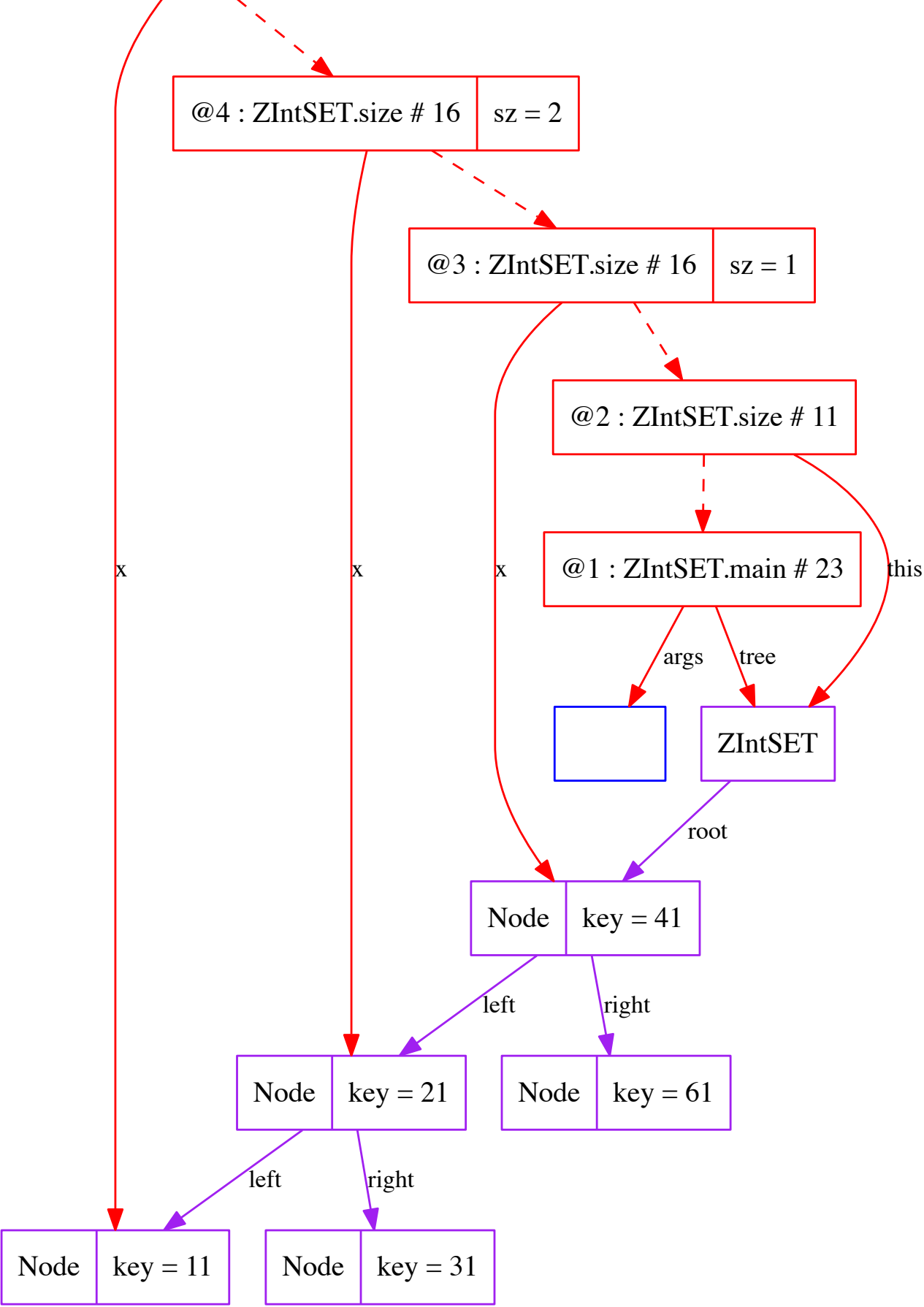
|      |          |
|------|----------|
| Node | key = 31 |
|------|----------|

x

x

x

this



|                        |        |
|------------------------|--------|
| @5 : ZIntSET.size # 15 | sz = 2 |
|------------------------|--------|

|                        |        |
|------------------------|--------|
| @4 : ZIntSET.size # 16 | sz = 2 |
|------------------------|--------|

|                        |        |
|------------------------|--------|
| @3 : ZIntSET.size # 16 | sz = 1 |
|------------------------|--------|

|                        |
|------------------------|
| @2 : ZIntSET.size # 11 |
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|------------------------|
| @1 : ZIntSET.main # 23 |
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| ZIntSET |
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|      |          |
|------|----------|
| Node | key = 41 |
|------|----------|

|      |          |
|------|----------|
| Node | key = 21 |
|------|----------|

|      |          |
|------|----------|
| Node | key = 61 |
|------|----------|

|      |          |
|------|----------|
| Node | key = 11 |
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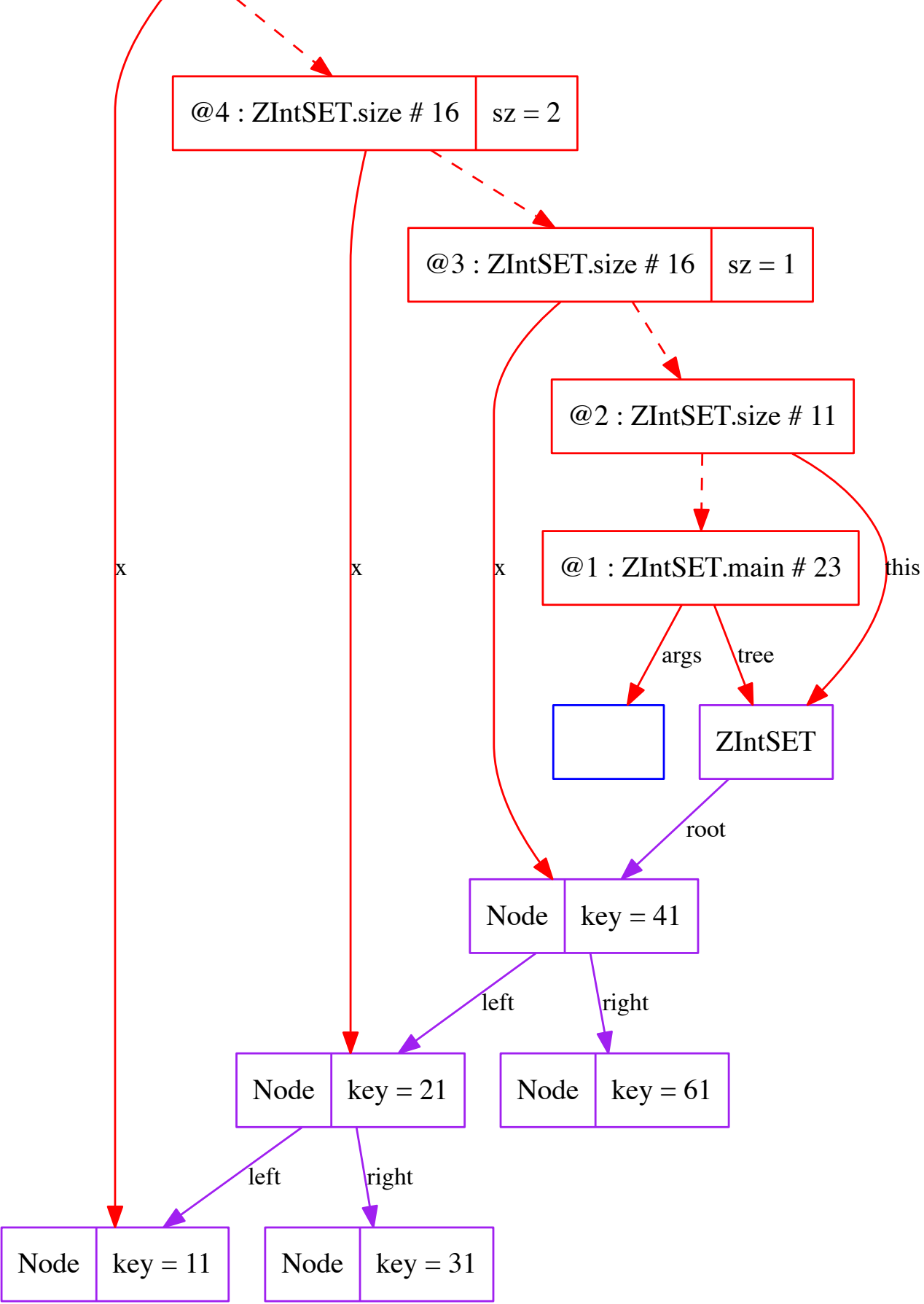
|      |          |
|------|----------|
| Node | key = 31 |
|------|----------|

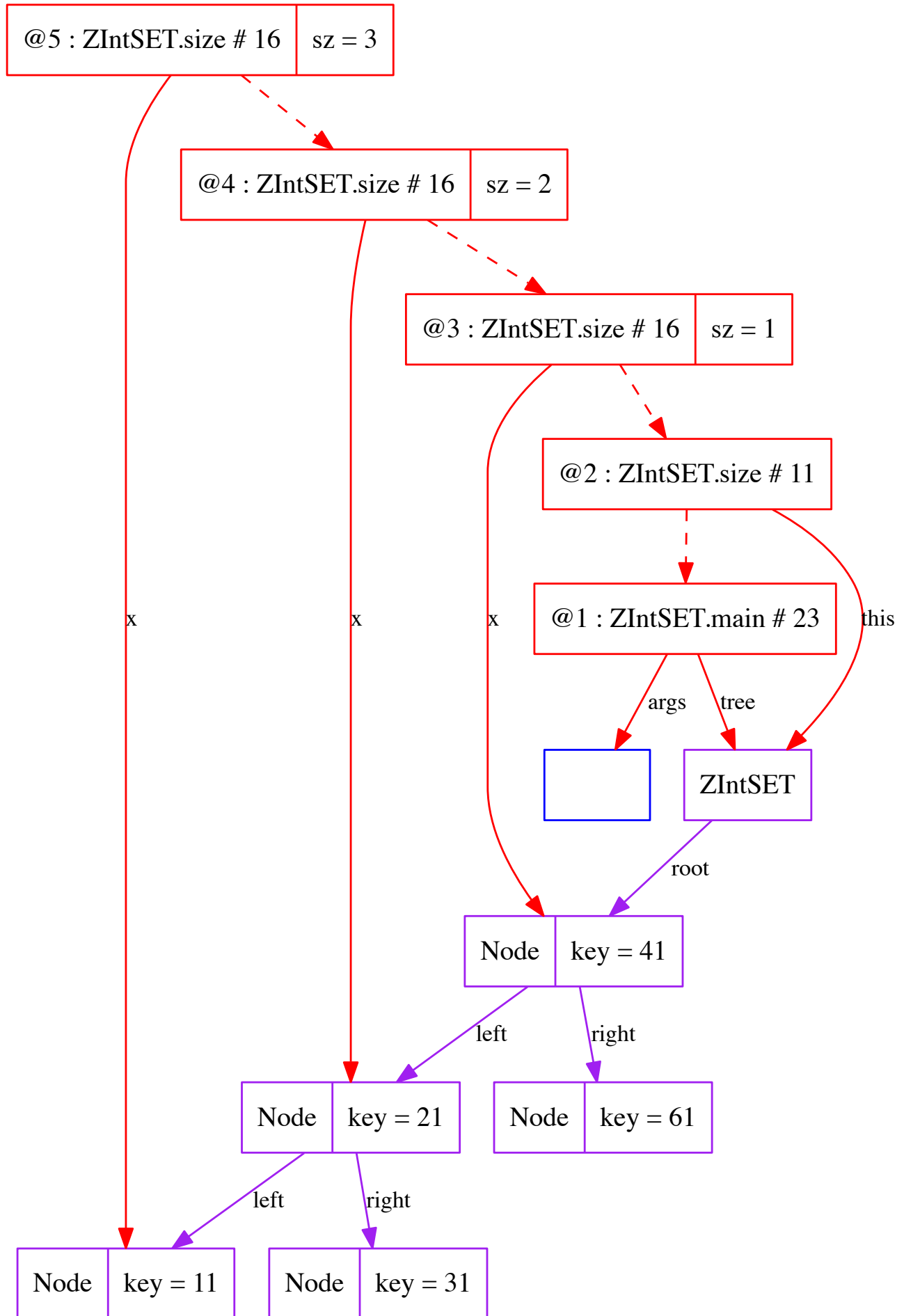
x

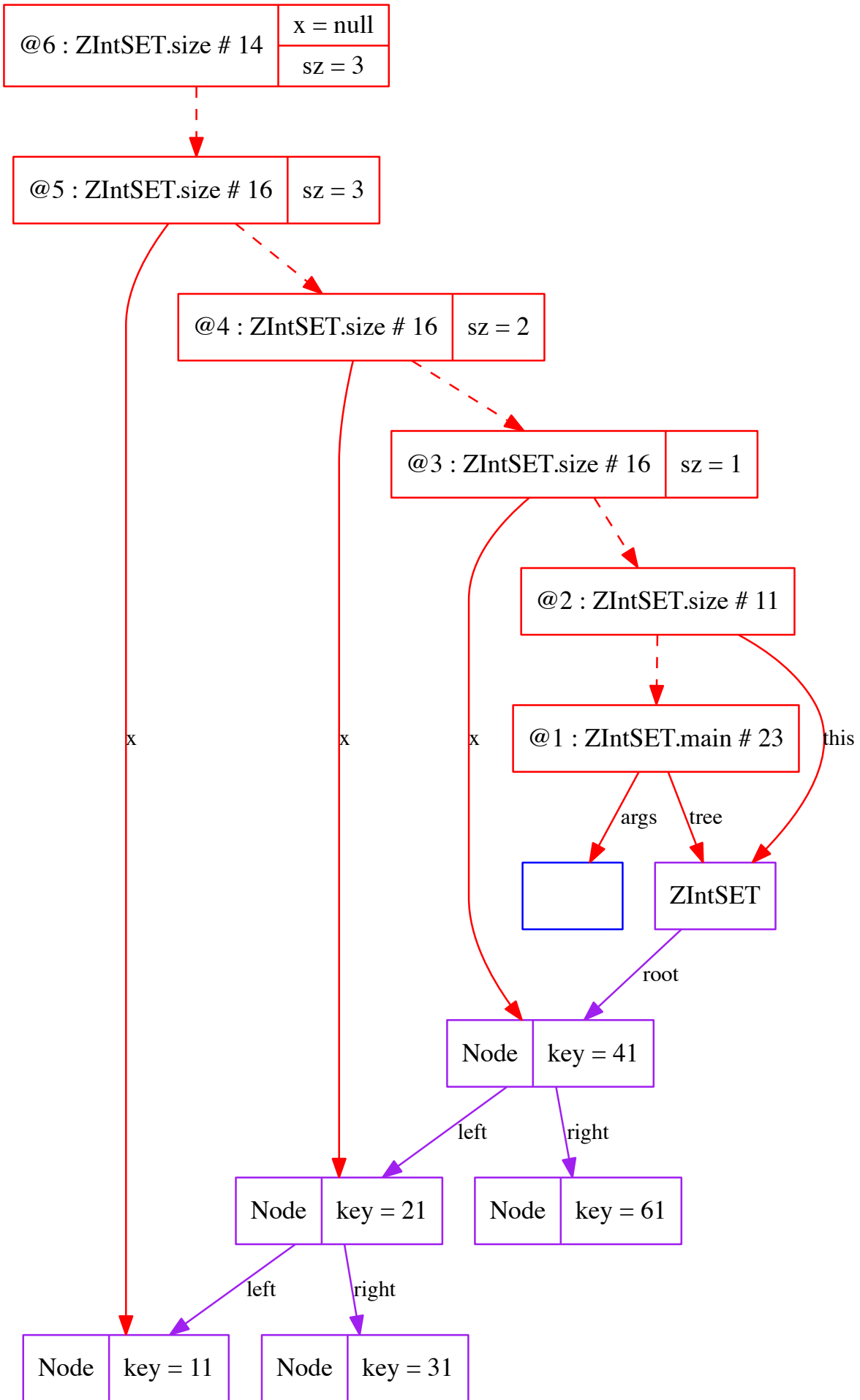
x

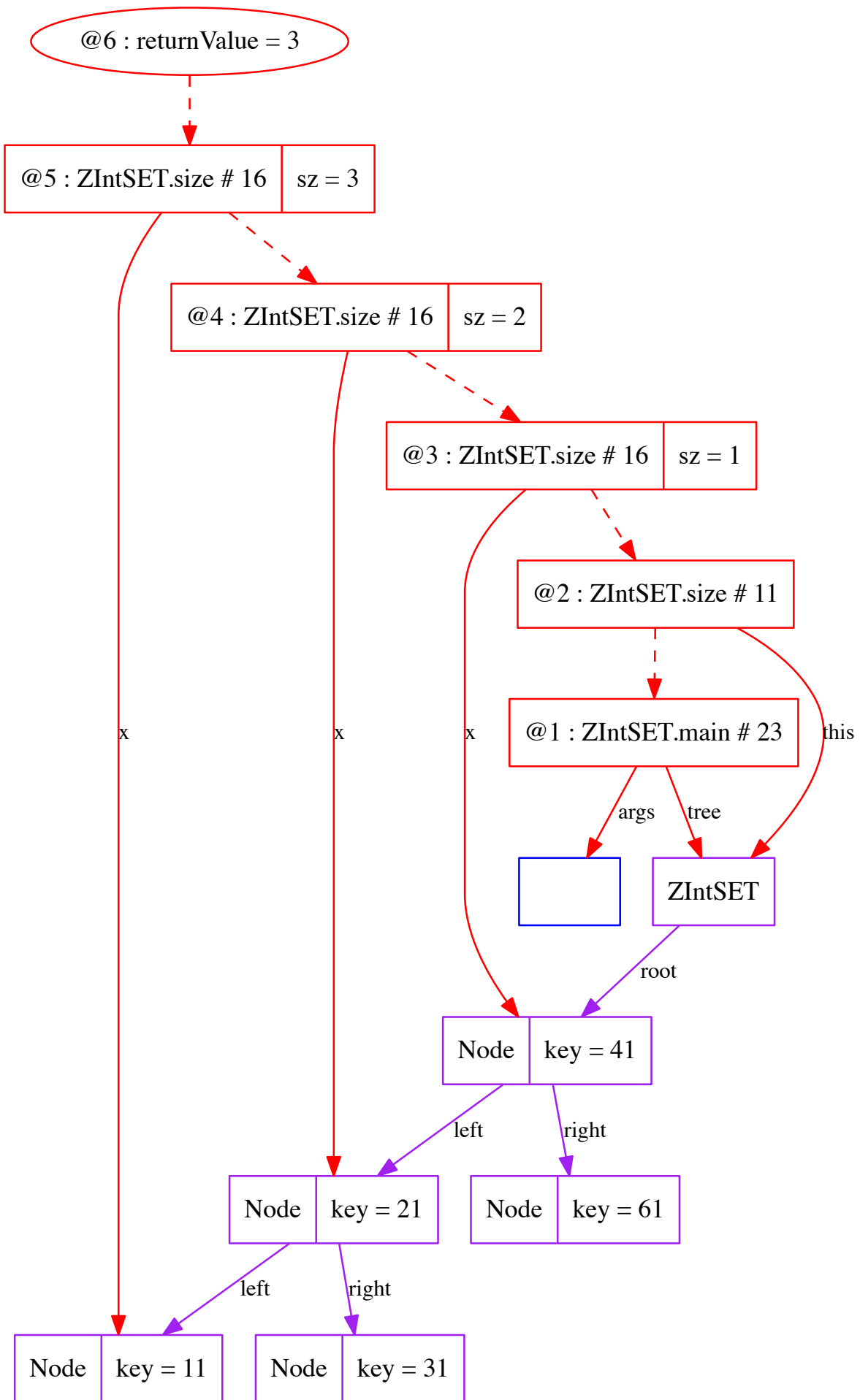
x

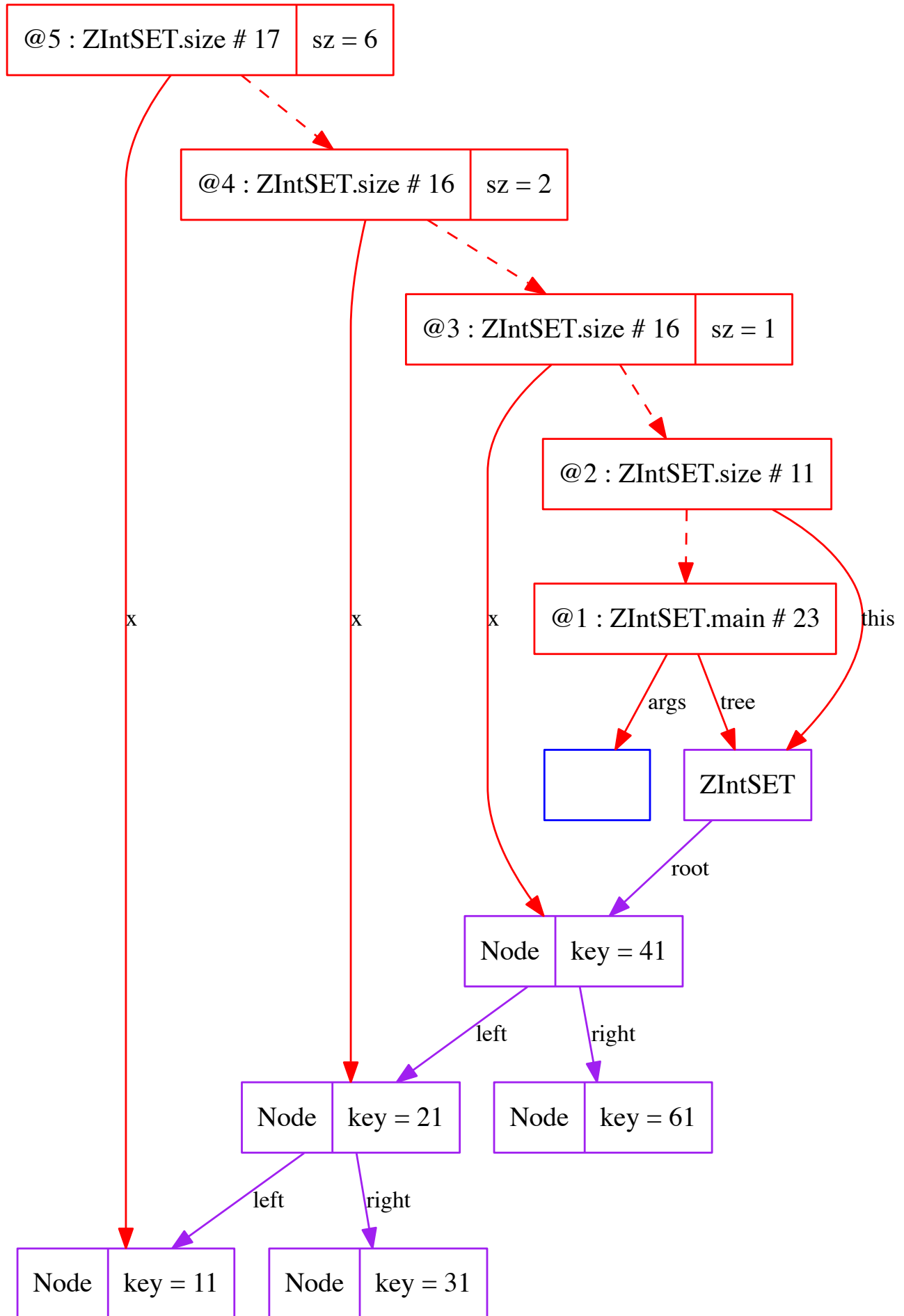
this

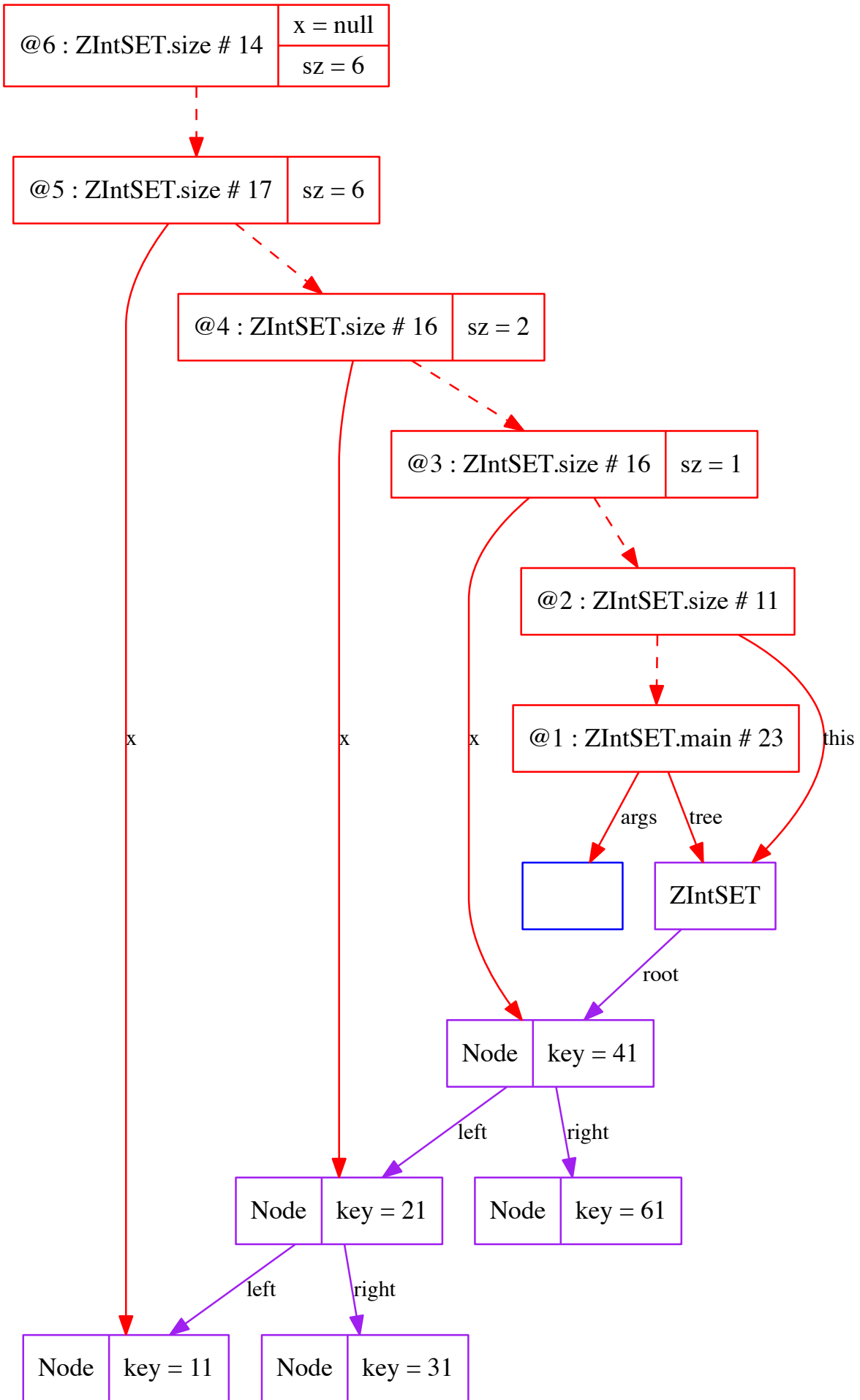


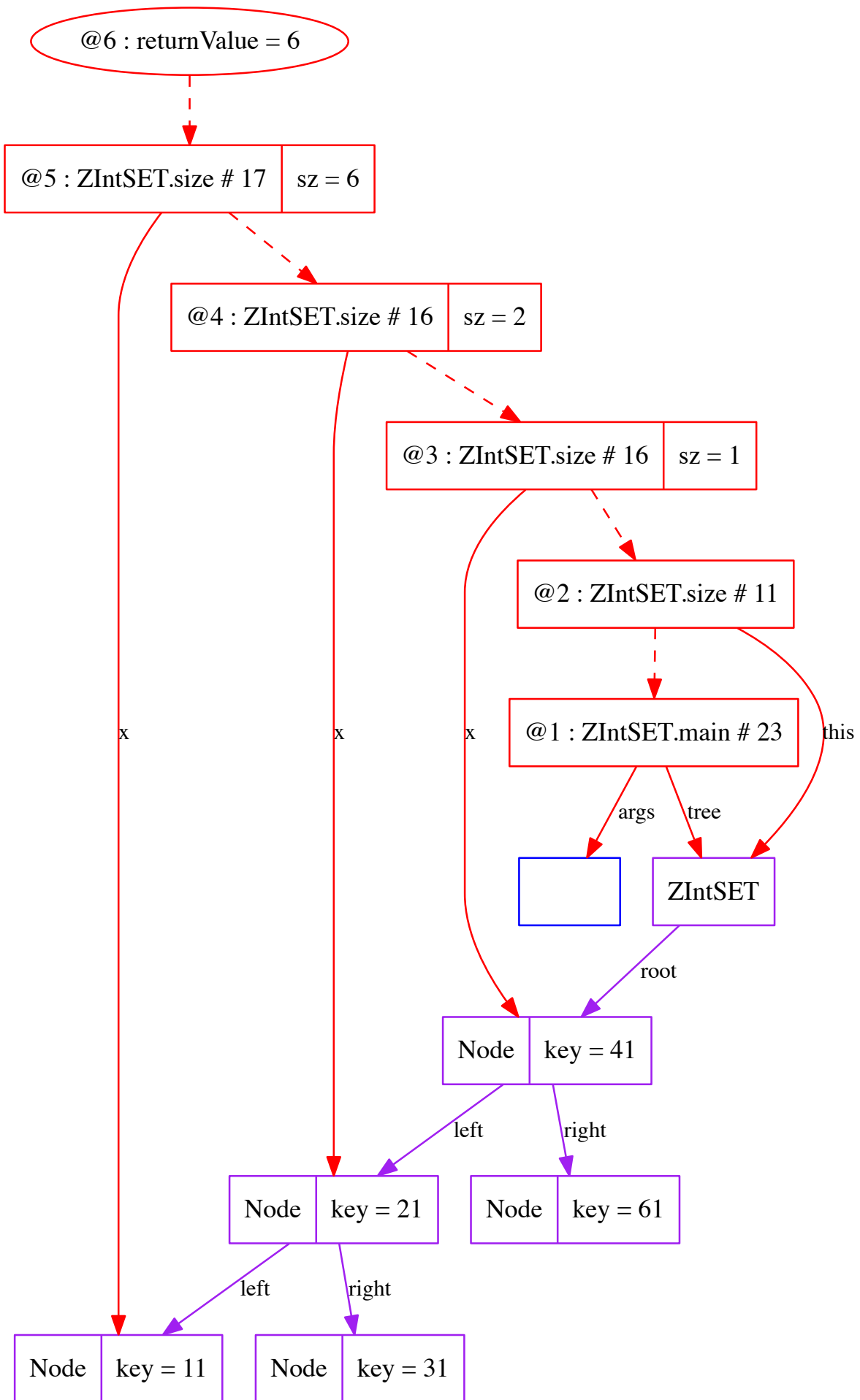














|                        |         |
|------------------------|---------|
| @5 : ZIntSET.size # 18 | sz = 12 |
|------------------------|---------|

|                        |        |
|------------------------|--------|
| @4 : ZIntSET.size # 16 | sz = 2 |
|------------------------|--------|

|                        |        |
|------------------------|--------|
| @3 : ZIntSET.size # 16 | sz = 1 |
|------------------------|--------|

|                        |
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| @2 : ZIntSET.size # 11 |
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| @1 : ZIntSET.main # 23 |
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| ZIntSET |
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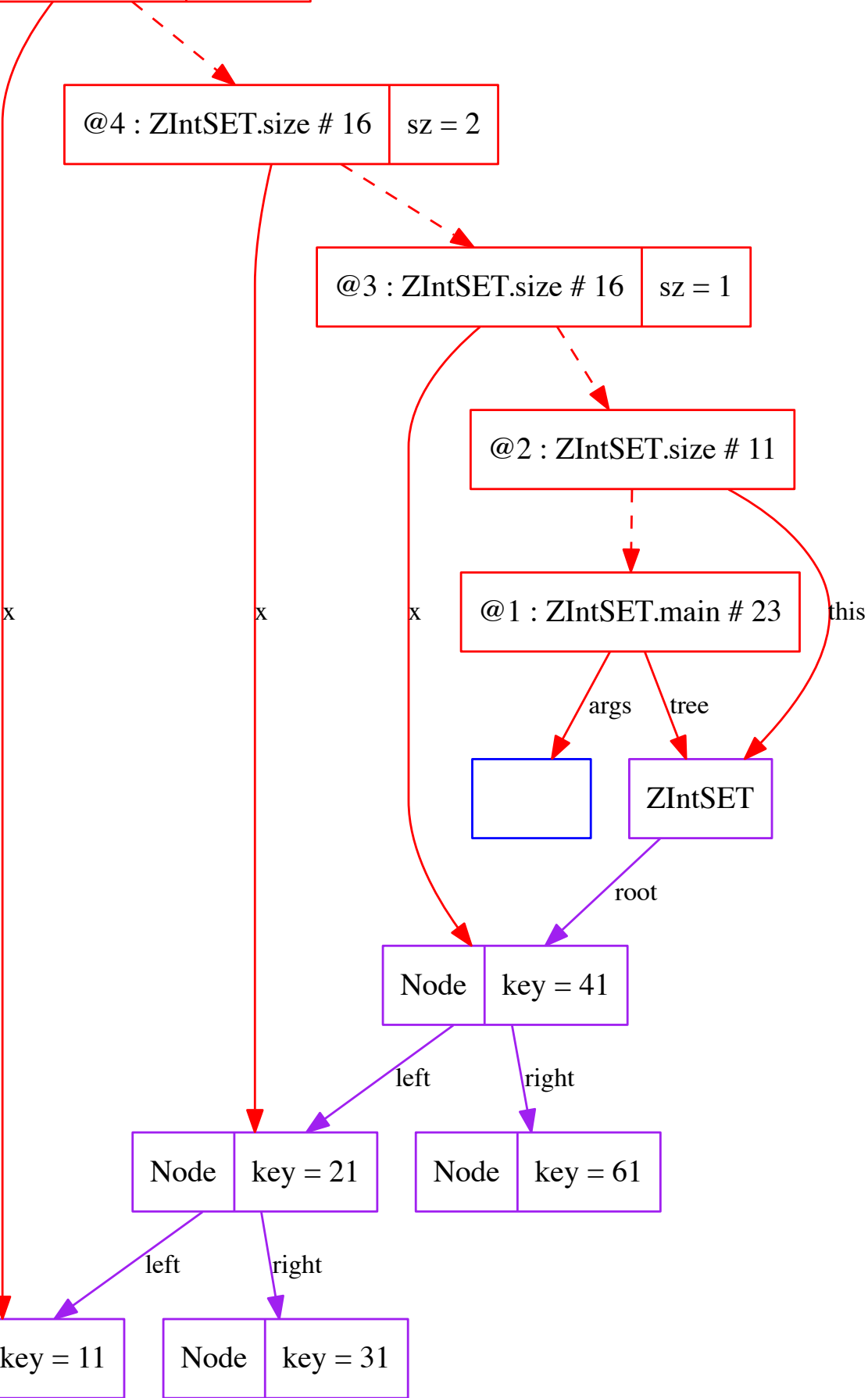
|      |          |
|------|----------|
| Node | key = 41 |
|------|----------|

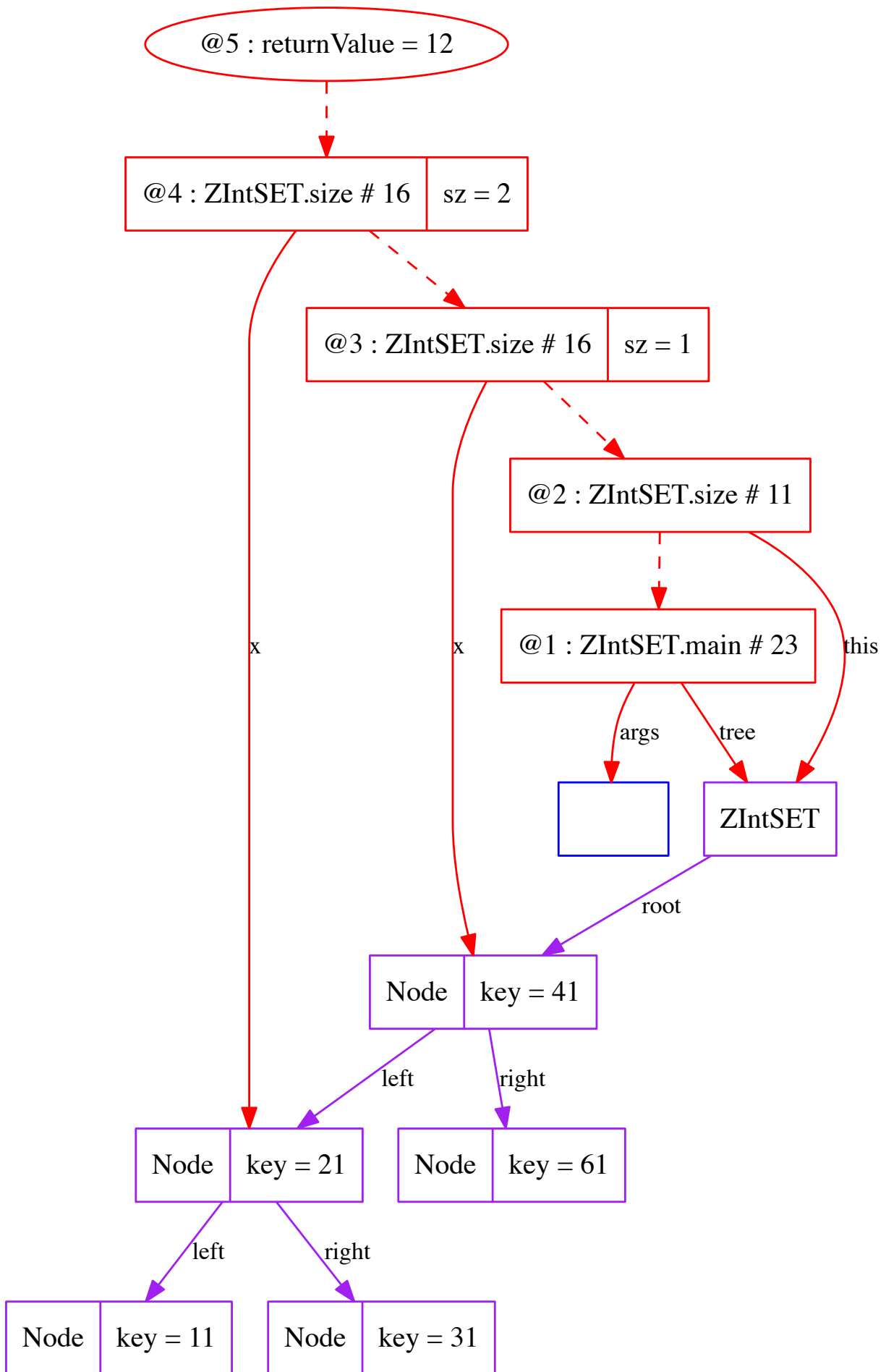
|      |          |
|------|----------|
| Node | key = 21 |
|------|----------|

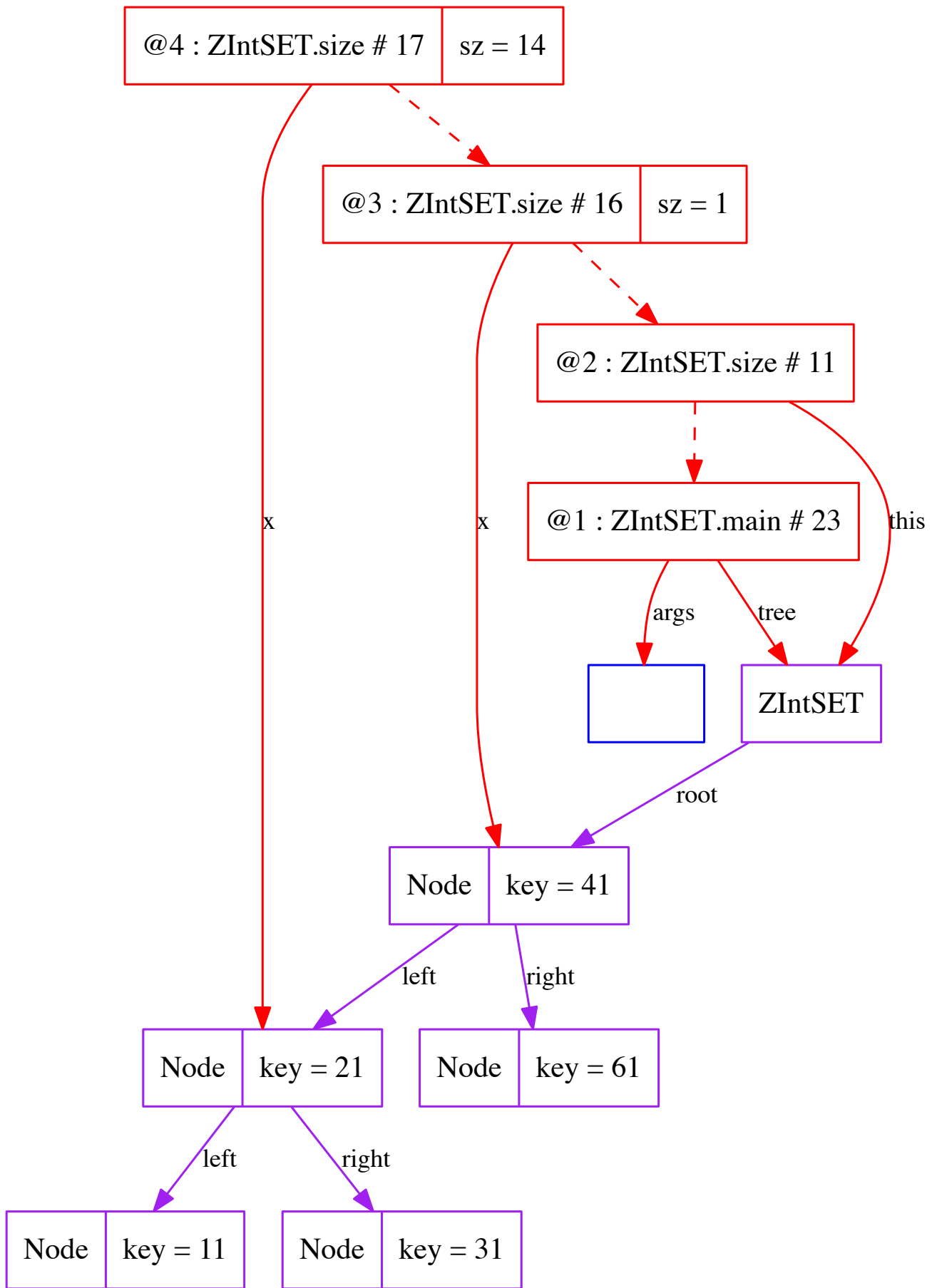
|      |          |
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| Node | key = 61 |
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| Node | key = 11 |
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|      |          |
|------|----------|
| Node | key = 31 |
|------|----------|







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|------------------------|---------|
| @5 : ZIntSET.size # 14 | sz = 14 |
|------------------------|---------|

|                        |         |
|------------------------|---------|
| @4 : ZIntSET.size # 17 | sz = 14 |
|------------------------|---------|

|                        |        |
|------------------------|--------|
| @3 : ZIntSET.size # 16 | sz = 1 |
|------------------------|--------|

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| @2 : ZIntSET.size # 11 |
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| @1 : ZIntSET.main # 23 |
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| ZIntSET |
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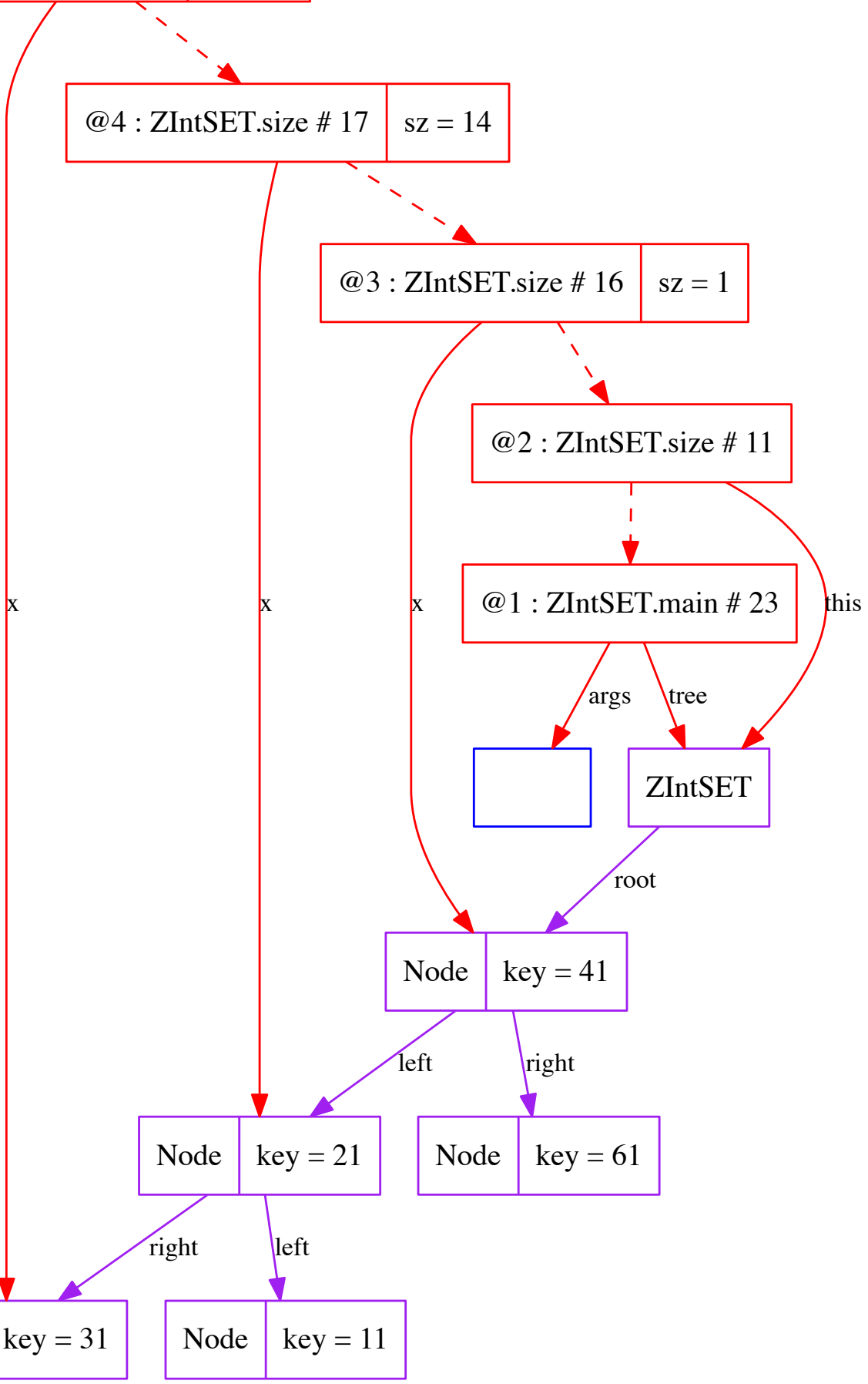
|      |          |
|------|----------|
| Node | key = 41 |
|------|----------|

|      |          |
|------|----------|
| Node | key = 21 |
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|      |          |
|------|----------|
| Node | key = 61 |
|------|----------|

|      |          |
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| Node | key = 31 |
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|      |          |
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| Node | key = 11 |
|------|----------|



|                        |         |
|------------------------|---------|
| @5 : ZIntSET.size # 15 | sz = 14 |
|------------------------|---------|

|                        |         |
|------------------------|---------|
| @4 : ZIntSET.size # 17 | sz = 14 |
|------------------------|---------|

|                        |        |
|------------------------|--------|
| @3 : ZIntSET.size # 16 | sz = 1 |
|------------------------|--------|

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| @2 : ZIntSET.size # 11 |
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| @1 : ZIntSET.main # 23 |
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| ZIntSET |
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| Node | key = 41 |
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| Node | key = 21 |
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|      |          |
|------|----------|
| Node | key = 61 |
|------|----------|

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| Node | key = 31 |
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|      |          |
|------|----------|
| Node | key = 11 |
|------|----------|

x

x

x

this

args

tree

root

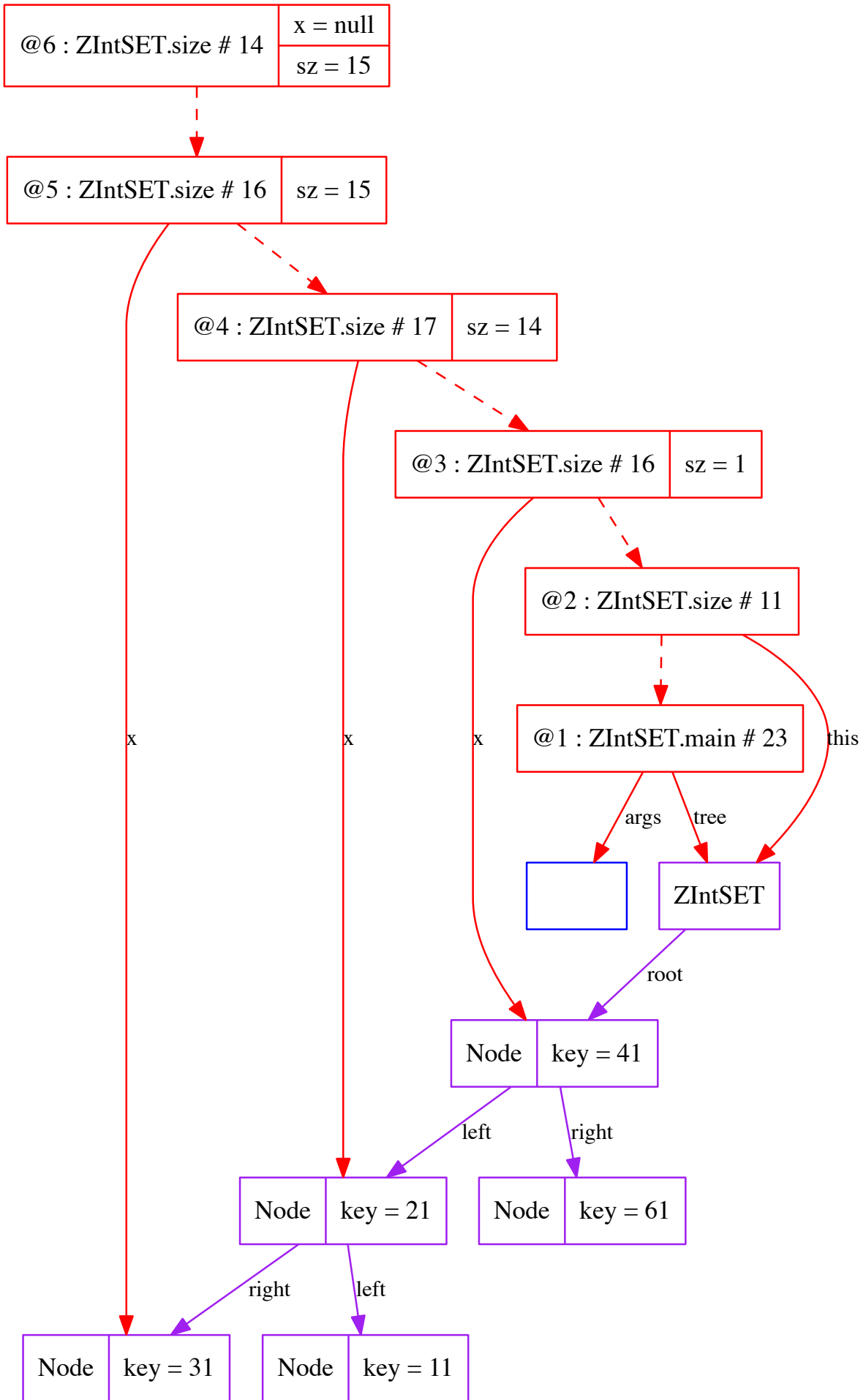
left

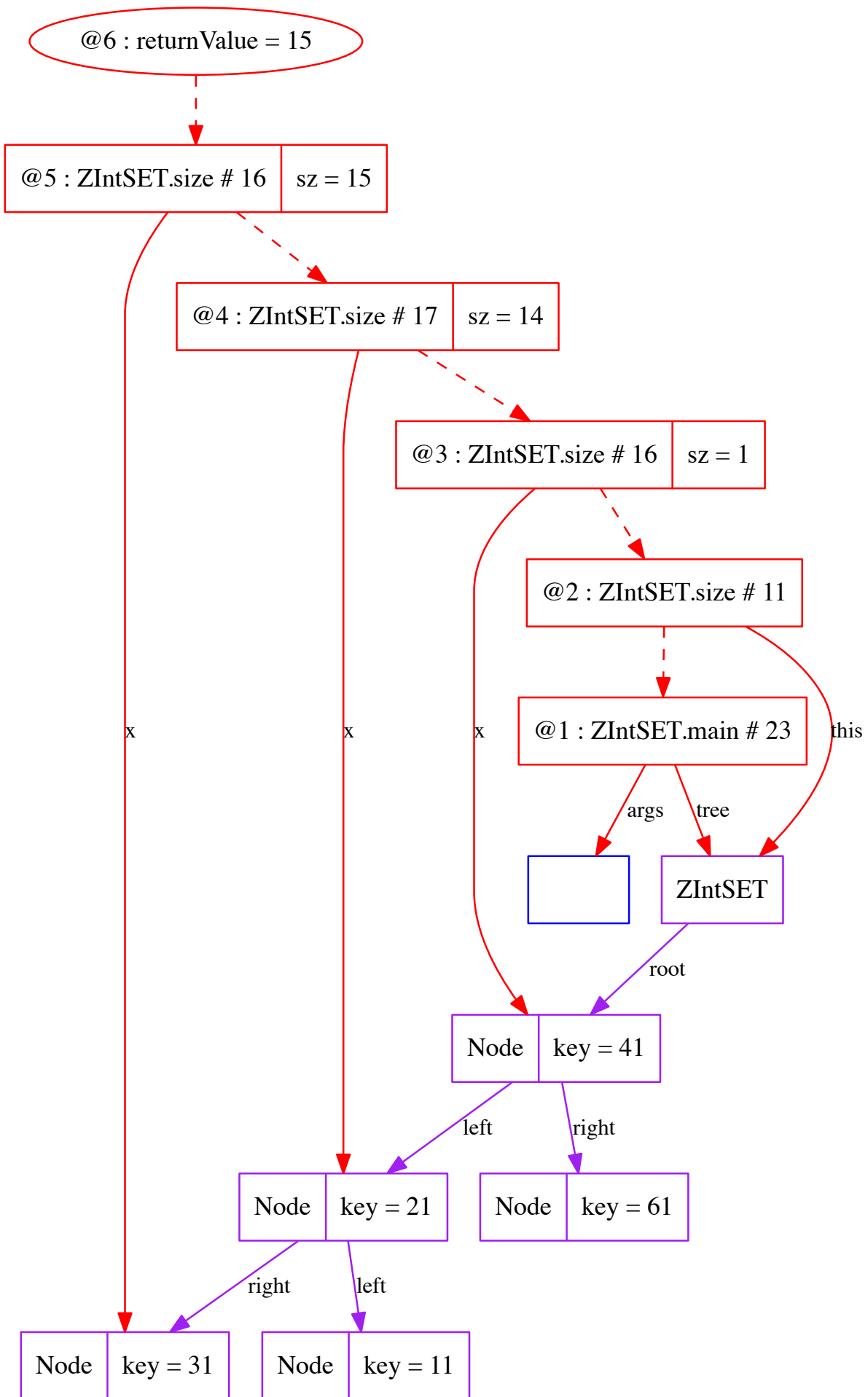
right

right

left









|                        |         |
|------------------------|---------|
| @5 : ZIntSET.size # 17 | sz = 30 |
|------------------------|---------|

|                        |         |
|------------------------|---------|
| @4 : ZIntSET.size # 17 | sz = 14 |
|------------------------|---------|

|                        |        |
|------------------------|--------|
| @3 : ZIntSET.size # 16 | sz = 1 |
|------------------------|--------|

|                        |
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| @2 : ZIntSET.size # 11 |
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| @1 : ZIntSET.main # 23 |
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| ZIntSET |
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|------|----------|
| Node | key = 41 |
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|      |          |
|------|----------|
| Node | key = 21 |
|------|----------|

|      |          |
|------|----------|
| Node | key = 61 |
|------|----------|

|      |          |
|------|----------|
| Node | key = 31 |
|------|----------|

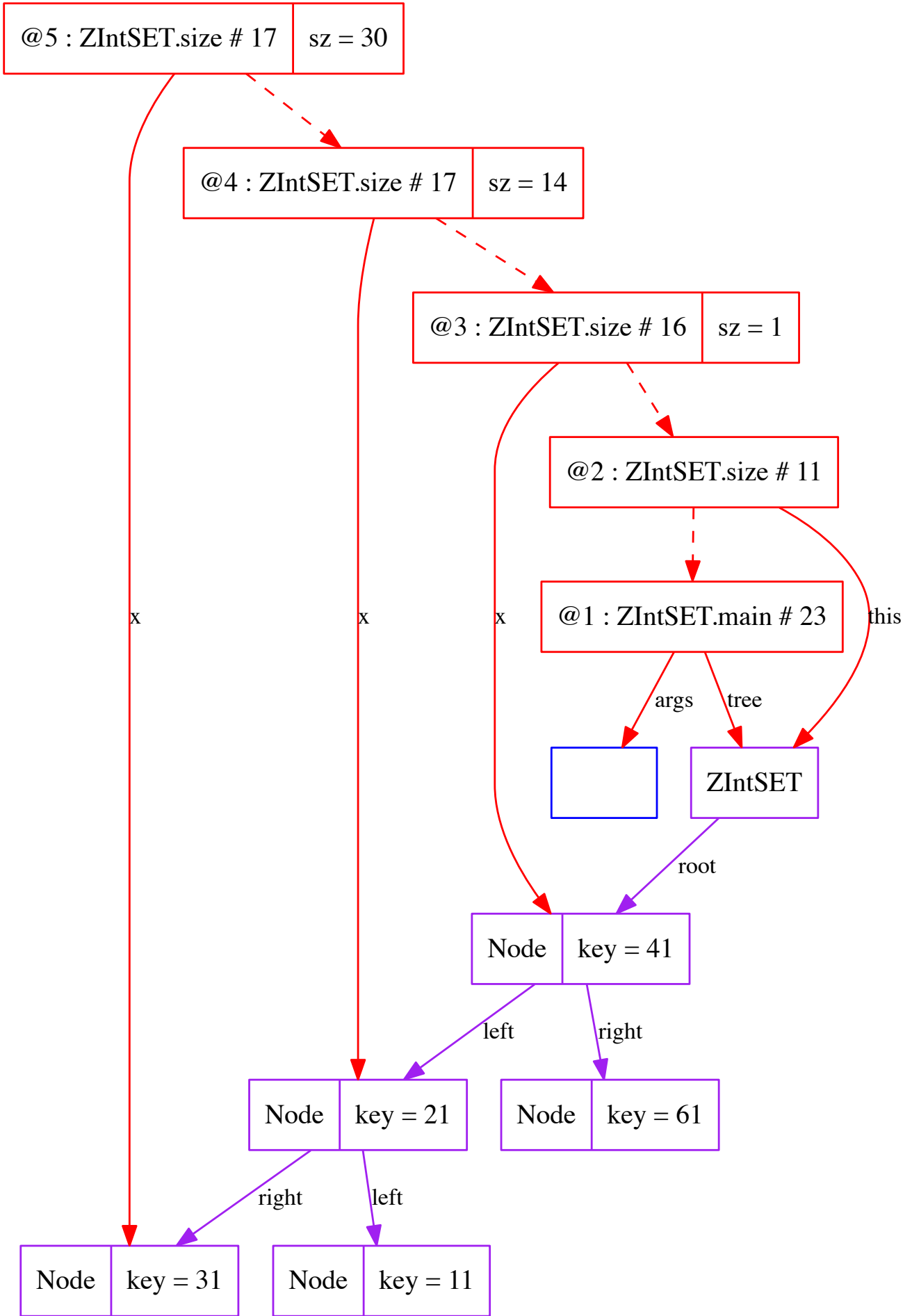
|      |          |
|------|----------|
| Node | key = 11 |
|------|----------|

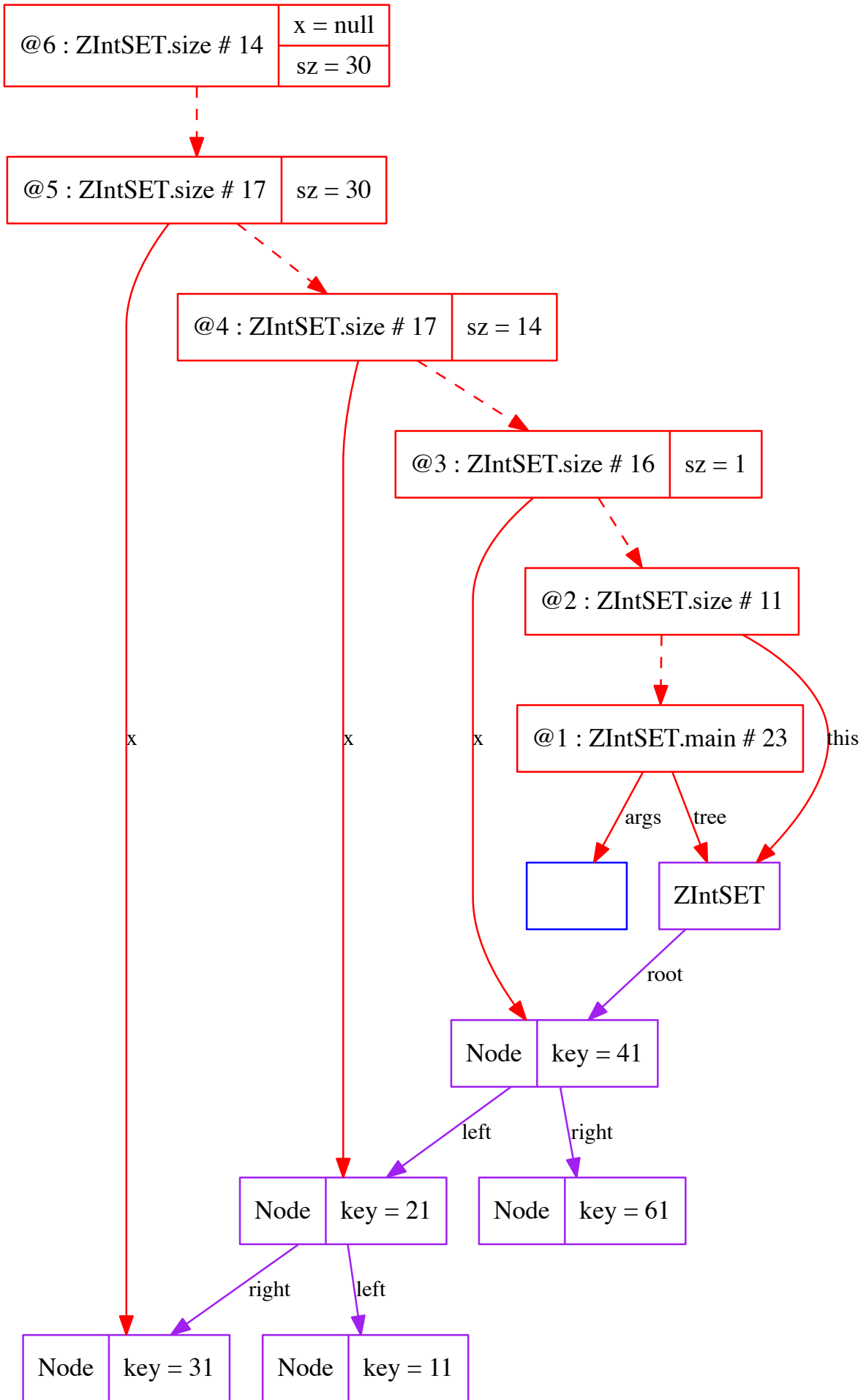
x

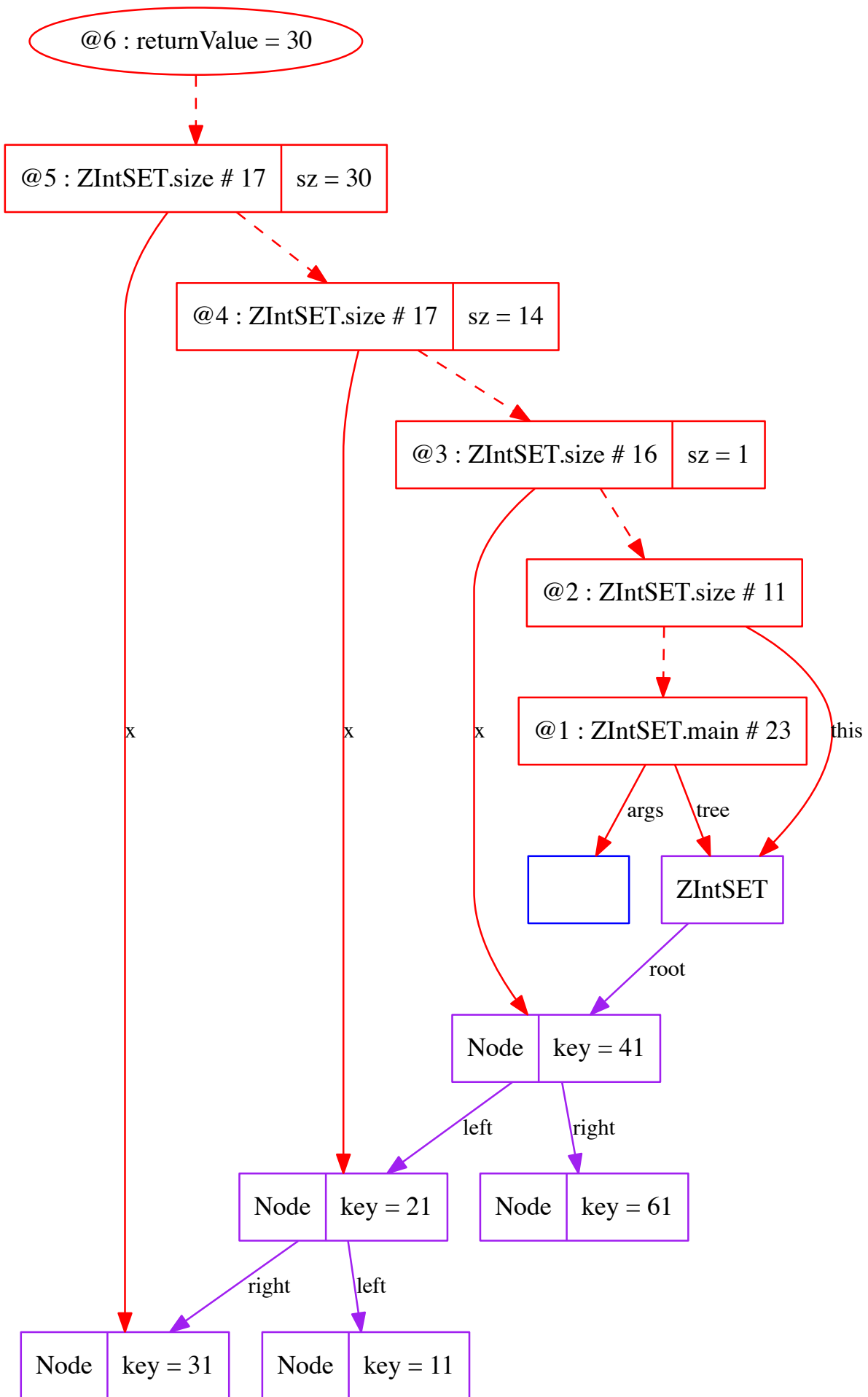
x

x

this







|                        |         |
|------------------------|---------|
| @5 : ZIntSET.size # 18 | sz = 60 |
|------------------------|---------|

|                        |         |
|------------------------|---------|
| @4 : ZIntSET.size # 17 | sz = 14 |
|------------------------|---------|

|                        |        |
|------------------------|--------|
| @3 : ZIntSET.size # 16 | sz = 1 |
|------------------------|--------|

|                        |
|------------------------|
| @2 : ZIntSET.size # 11 |
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|                        |
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| @1 : ZIntSET.main # 23 |
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| ZIntSET |
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|      |          |
|------|----------|
| Node | key = 41 |
|------|----------|

|      |          |
|------|----------|
| Node | key = 21 |
|------|----------|

|      |          |
|------|----------|
| Node | key = 61 |
|------|----------|

|      |          |
|------|----------|
| Node | key = 31 |
|------|----------|

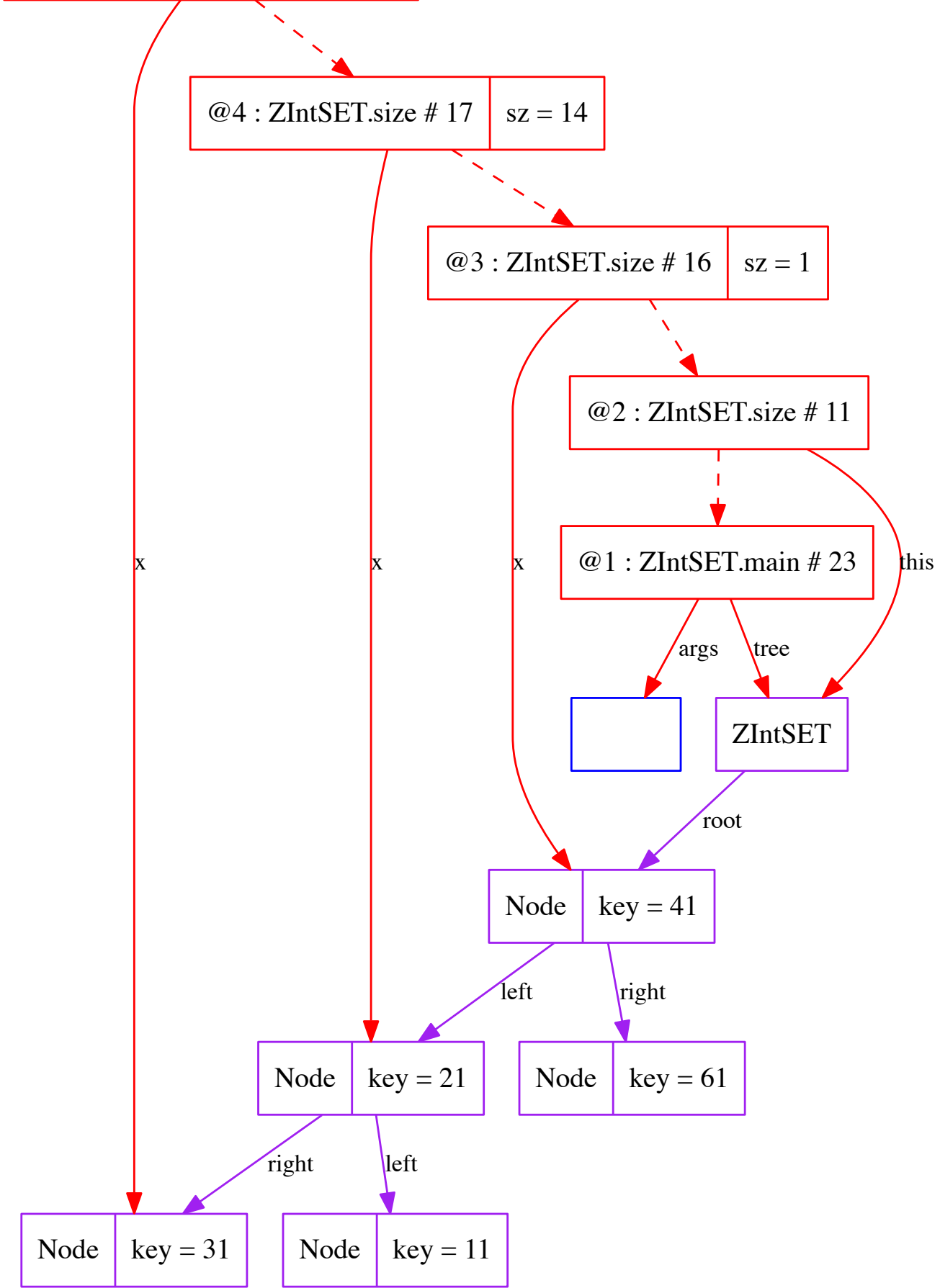
|      |          |
|------|----------|
| Node | key = 11 |
|------|----------|

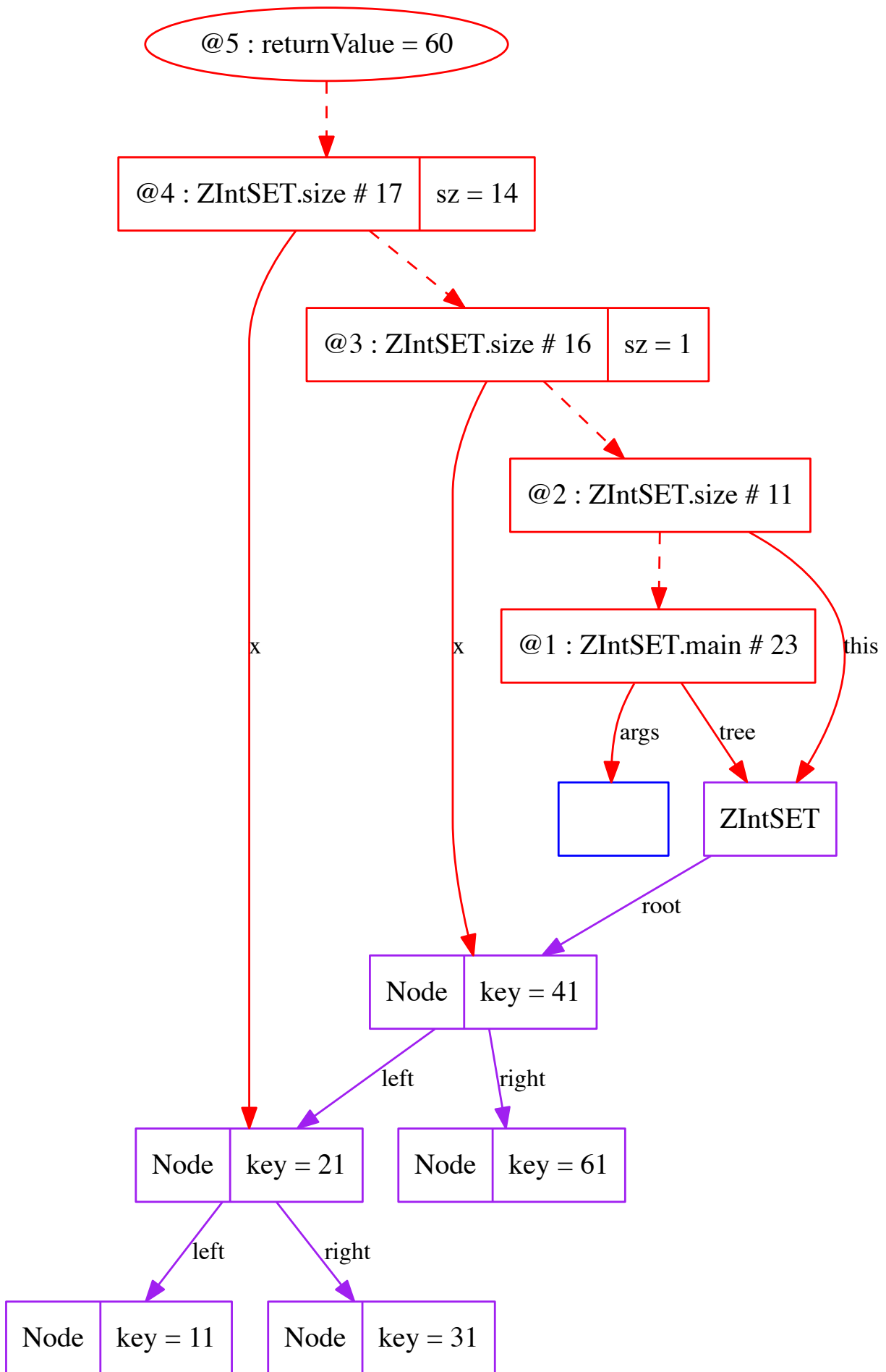
x

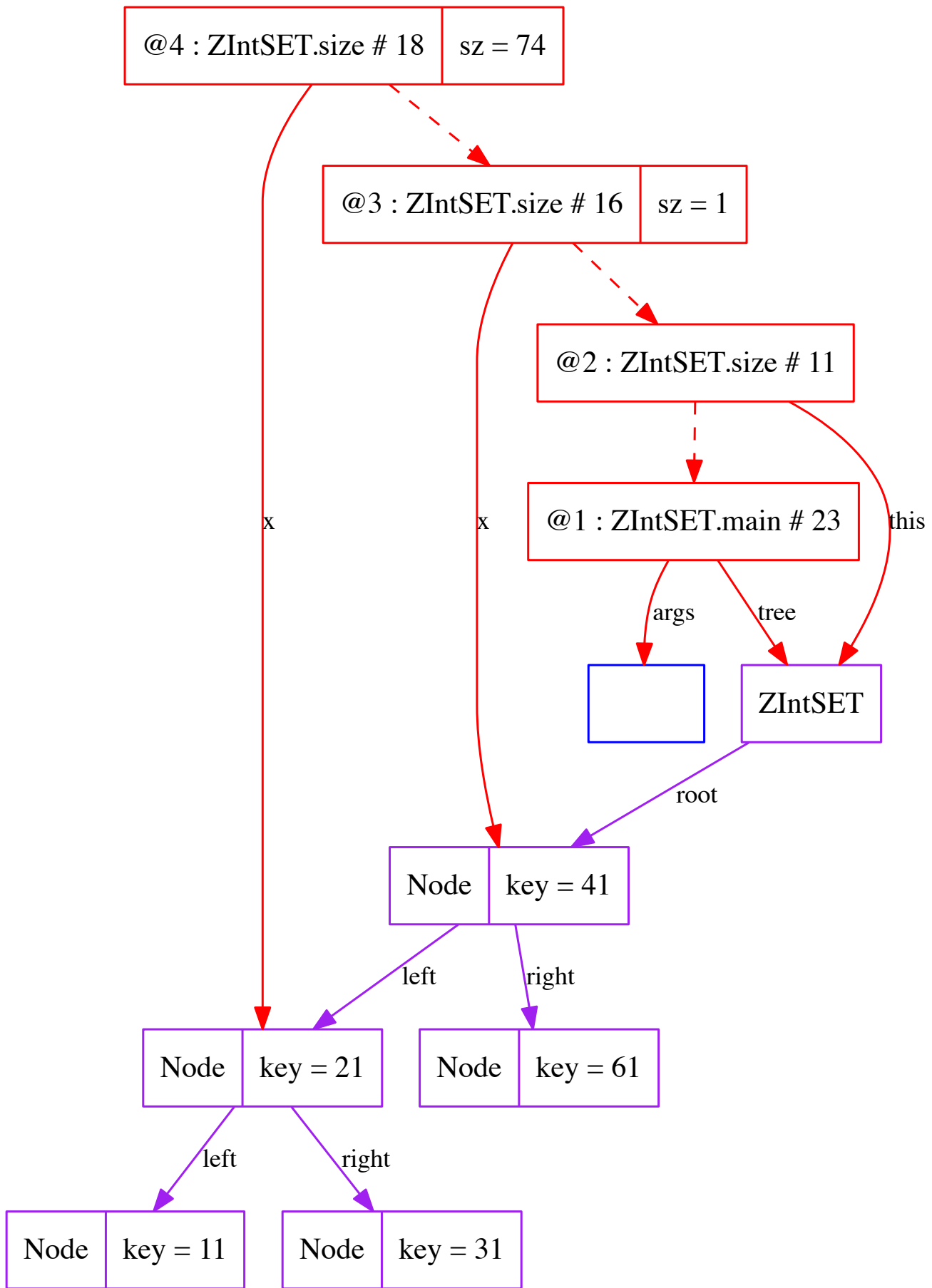
x

x

this







@4 : returnValue = 74

@3 : ZIntSET.size # 16 | sz = 1

@2 : ZIntSET.size # 11

@1 : ZIntSET.main # 23

ZIntSET

Node | key = 41

Node | key = 21

Node | key = 61

Node | key = 11

Node | key = 31

