

# 1 Initialization Blocks Handler

## 1.1 Handler Algorithm

Algorithm 1: Handle	
<b>Input:</b> L, B, R, M	
1	$A_L \leftarrow \{l \in L \mid (\neg \exists b \in B)(l.id = b.id)\};$
2	$A_R \leftarrow \{r \in R \mid (\neg \exists b \in B)(r.id = b.id)\};$
3	$D_L \leftarrow \{b \in B \mid (\neg \exists l \in L)(b.id = l.id)\};$
4	$D_R \leftarrow \{b \in B \mid (\neg \exists r \in R)(b.id = r.id)\};$
5	$D \leftarrow D_L \cap D_R;$
6	$IB_L \leftarrow \{n \in A_L \mid n.type = INITBLOCK\};$
7	$IB_R \leftarrow \{n \in A_R \mid n.type = INITBLOCK\};$
8	$IB_B \leftarrow \{n \in D \mid n.type = INITBLOCK\};$
9	$matches \leftarrow \emptyset;$
10	<b>if</b> $ IB_L  = 1 \wedge  IB_R  == 1 \wedge  IB_B  = 1$ <b>then</b>
11	$matches \leftarrow matches \cup ();$
12	<b>else</b>
13	<b>foreach</b> $b \in IB_B$ <b>do</b>
14	$l \leftarrow findFirst(l \in IB_L \rightarrow l.body \approx b.body);$
15	$r \leftarrow findFirst(r \in IB_R \rightarrow r.body \approx b.body);$
16	$IB_L \leftarrow IB_L - l;$
17	$IB_R \leftarrow IB_R - r;$
18	<b>if</b> $l \neq null \wedge r \neq null$ <b>then</b>
19	$matches \leftarrow matches \cup (l, b, r);$
20	<b>end</b>
21	<b>end</b>
22	<b>foreach</b> $l \in IB_L$ <b>do</b>
23	$r \leftarrow findFirst(r \in IB_R \rightarrow r.body \approx l.body);$
24	$IB_R \leftarrow IB_R - r;$
25	<b>if</b> $r \neq null$ <b>then</b>
26	$matches \leftarrow matches \cup (l, null, r);$
27	<b>end</b>
28	<b>end</b>
29	<b>end</b>
30	<b>foreach</b> $(l, b, r) \in matches$ <b>do</b>
31	$m \leftarrow find(m \in M \rightarrow m.body = l.body);$
32	$m.body \leftarrow textualMerge(l.body, b.body, r.body);$
33	$m \leftarrow find(m \in M \rightarrow m.body = r.body);$
34	$removeNode(m, M);$
35	<b>end</b>