1 Initialization Blocks Handler

1.1 Handler Algorithm

```
Algorithm 1: Handle
    Input: 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_B ← {b \in B \mid (\neg \exists l \in L)(b.id = l.id) \land (\neg \exists r \in R)(b.id = r.id)};
 4 IB_L \leftarrow \{n \in A_L \mid n.type = INITBLOCK\};
 5 IB_R \leftarrow \{n \in A_R \mid n.type = INITBLOCK\};
 6 IB_B ← {n ∈ D_B | n.type = INITBLOCK};
 7 matches \leftarrow \emptyset;
 8 if |IB_L| = 1 \land |IB_B| == 1 \land |IB_R| = 1 then
        matches \leftarrow matches \cup (IB_{L_1}, IB_{B_1}, IB_{R_1});
10 else
11
        foreach b \in IB_B do
             l \leftarrow findFirst(l \in IB_L \rightarrow l.body \approx b.body);
12
             r \leftarrow findFirst(r \in IB_R \rightarrow r.body \approx b.body);
13
             IB_L \leftarrow IB_L - l;
14
             IB_R \leftarrow IB_R - r;
15
             if l \neq null \land r \neq null then
16
              matches \leftarrow matches \cup (l, b, r);
17
18
             end
        \quad \mathbf{end} \quad
19
        for
each l \in IB_L do
20
             r \leftarrow findFirst(r \in IB_R \rightarrow r.body \approx l.body);
21
             IB_R \leftarrow IB_R - r;
22
23
             if r \neq null then
              matches \leftarrow matches \cup (l, null, r);
24
             \mathbf{end}
25
26
        end
27 end
28 foreach (l, b, r) \in matches do
        m \leftarrow find(m \in M \rightarrow m.body = l.body);
30
        m.body \leftarrow \texttt{textualMerge}(l.body, b.body, r.body);
        m \leftarrow find(m \in M \rightarrow m.body = r.body);
31
        removeNode(m, M);
32
зз end
```