```
0   lw x1 0(x5)   IF | ID | EX | ME | WB
1                                   A  | W
2   add stalled        IF | ID | -- | -- | --
3                                N
4   add x8 x1 x1            IF | ID | EX | ME | WB
5                                   N
6   lw x9 0(x1)                  IF | ID | EX | ME | WB
7                                        N
8
9   lw x1 0(x5)   IF | ID | EX | ME | WB
10                                  A  | W
11  addi x7 x6 1       IF | ID | EX | ME | WB
12
13  add x8 x1 x1            IF | ID | EX | ME | WB
14                                  N
15  lw x9 0(x1)                  IF | ID | EX | ME | WB
16                                       N
17
18  lw x1 0(x5)   IF | ID | EX | ME | WB
19                                  A  | W
20  lw stalled         IF | ID | -- | -- | --
21                                       A  | W
22  lw x2 0(x1)             IF | ID | EX | ME | WB
23                                  N         A  | W
24  add stalled                  IF | ID | -- | -- | --
25                                       N
26  add x8 x1 x2                    IF | ID | EX | ME | WB
27                                            N
28  add x9 x1 x2                         IF | ID | EX | ME | WB
29                                                 N
30
31  lw x1 0(x5)   IF | ID | EX | ME | WB
32                                  A  | W
33  lw x2 0(x6)        IF | ID | EX | ME | WB
34                                       A  | W
35  add stalled             IF | ID | -- | -- | --
36                                  N
37  add x8 x1 x2                 IF | ID | EX | ME | WB
38                                       N
39  add x9 x1 x2                    IF | ID | EX | ME | WB
40                                            N
```