

| Instructions | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|----------------------------|-----------|-----------|------------|------------|-----------|-----------|------------|------------|------------|------------|------------|-----------|
| add x12, x11, x14 | IF | DE | EXE | MEM | WB | | | | | | | |
| add x15, x12, x16 | | IF | bulle | bulle | bulle | DE | EXE | MEM | WB | | | |
| add \$18, \$19, x12 | | | | | | IF | DE | EXE | MEM | WB | | |
| add \$19, x12, x12 | | | | | | | IF | DE | EXE | MEM | WB | |
| sw x20, 24(x12)) | | | | | | | | IF | DE | EXE | MEM | WB |

