```
Main Core (Assembly)
                                              Null Filtering
1: call malloc ;return
                                1: rf null[1] = false
pointer 0x12340000 in r1
                                2: rf null[2] = true
2: mov r2, #8
  : r2 is not a pointer
3a: mov r3, #1
                                3: rf null[3] = true
3b: str r3, [r1, #12]
                                3b: if (rf null[1] && rf null[3]) {
    : store to 0x1234000c
                                       // drop monitoring
                                    mem null[r3 + 12] = rf null[r3]
4: add r2, r2, r3
                                4: if (rf null[2] && rf null[3]) {
                                     // drop monitoring
                                   rf null[r3] = rf null[3] & rf null[2]
```