

```
1 Writeup
2 Section 9
3 ==7980== Memcheck, a memory error detector.
4 ==7980== Copyright (C) 2002-2007, and GNU GPL'd, by Julian Seward et al.
5 ==7980== Using LibVEX rev 1854, a library for dynamic binary translation.
6 ==7980== Copyright (C) 2004-2007, and GNU GPL'd, by OpenWorks LLP.
7 ==7980== Using valgrind-3.3.1-Debian, a dynamic binary instrumentation framework.
8 ==7980== Copyright (C) 2000-2007, and GNU GPL'd, by Julian Seward et al.
9 ==7980== For more details, rerun with: -v
10 ==7980==
11 Setup
12 Matrix A:
13 -----
14 0 0 0 0
15 0 0 0 0
16 0 0 0 0
17 0 0 0 0
18 -----
19 Matrix B:
20 -----
21 0 0 0 0
22 0 0 0 0
23 0 0 0 0
24 0 0 0 0
25 -----
26 Running matrix_multiply_run()...
27 ---- RESULTS ----
28 Result:
29 -----
30 0 0 0 0
31 0 0 0 0
32 0 0 0 0
33 0 0 0 0
34 -----
35 ---- END RESULTS ----
36 Elapsed execution time: 0.003562 sec
37 ==7980==
38 ==7980== ERROR SUMMARY: 0 errors from 0 contexts (suppressed: 8 from 1)
39 ==7980== malloc/free: in use at exit: 0 bytes in 0 blocks.
40 ==7980== malloc/free: 38 allocs, 38 frees, 656 bytes allocated.
41 ==7980== For counts of detected errors, rerun with: -v
42 ==7980== All heap blocks were freed -- no leaks are possible.
43
44 Section 11
45 DEBUG: 14.924542 sec
46 No DEBUG: 8.244469 sec
47
48 Section 12
49 3.863867 sec
```