

Review for Final Exam

Do NOT write on this test. Record all answers on the bubble sheet. **Closed book. No notes.** Work strictly from memory. **No calculators. No time limit. Scratch paper okay.**

How many times does the body of the loop execute? (Mark 9 if 9 or more.)

- 1/10p. `int a; for(a=-1; a!=-1; ++a) body;`
- 2/10p. `int p=-5; while(p-- != -5) body;`
- 3/10p. `int j=2; while(j++ != 2) body;`
- 4/10p. `int s=5; while(s++ <= 11) body;`
- 5/10p. `int j; for(j=0; j!=-4; j--) body;`
- 6/10p. `int y=-8; while(--y > -9) body;`
- 7/10p. `int m; for(m=9; m>=5; --m) body;`
- 8/10p. `int x; for(x=5; x>=2; x--) body;`
- 9/10p. `int y=9; while(--y != 8) body;`
- 10/10p. `int m=8; do body; while(m-- > 3);`
- 11/10p. `int s=5; while(++s != 9) body;`
- 12/10p. `int x=-5; while(--x <= 0) body;`
- 13/10p. `int y=5; while(y-- >= 4) body;`
- 14/10p. `int b; for(b=-9; b>-17; b--) body;`
- 15/10p. `int w; for(w=3; w<=8; ++w) body;`
- 16/10p. `int e; for(e=-3; e>=-10; ++e) body;`
- 17/10p. `int a; for(a=-7; a!=-10; --a) body;`
- 18/10p. `int z=5; do body; while(z++ <= 11);`
- 19/10p. `int u=6; while(u++ <= 11) body;`
- 20/10p. `int e=-6; do body; while(e-- != -13);`
- 21/10p. `int f=-9; while(--f >= -9) body;`
- 22/10p. `int k; for(k=-7; k!=-4; ++k) body;`
- 23/10p. `int g=5; while(g++ <= 12) body;`
- 24/10p. `int y; for(y=-8; y!=-13; --y) body;`
- 25/10p. `int v=-8; do body; while(++v >= -14);`
- 26/10p. `int b=7; do body; while(--b != 5);`
- 27/10p. `int k=-4; while(k-- != -12) body;`
- 28/10p. `int j=10; do body; while(j-- > 8);`
- 29/10p. `int n=3; do body; while(n-- > 0);`
- 30/10p. `int u=2; while(u++ <= 3) body;`

Total points 300.

Answer Key (points per line)

1 (10).	0
2 (10).	0
3 (10).	0
4 (10).	7
5 (10).	4
6 (10).	0
7 (10).	5
8 (10).	4
9 (10).	0
10 (10).	6
11 (10).	3
12 (10).	9
13 (10).	2
14 (10).	8
15 (10).	6
16 (10).	9
17 (10).	3
18 (10).	8
19 (10).	6
20 (10).	8
21 (10).	0
22 (10).	3
23 (10).	8
24 (10).	5
25 (10).	9
26 (10).	2
27 (10).	8
28 (10).	3
29 (10).	4
30 (10).	2

Total points 300.