

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

Total points 300.

Answer Key (points per line)

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

Total points 300.