

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

Total points 300.

Answer Key (points per line)

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

Total points 300.