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.)

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

Total points 300.

Answer Key (points per line)

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

Total points 300.