

**For loops (definite pre-test iteration, chapter 6)**

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.)

- 1/1p. `int f; for( f=-7; f!=-4; ++f ) body;`
- 2/1p. `int r; for( r=-5; r!=-8; r++ ) body;`
- 3/1p. `int b; for( b=-3; b<-3; b++ ) body;`
- 4/1p. `int c; for( c=8; c>=2; c-- ) body;`
- 5/1p. `int u; for( u=10; u>=7; u-- ) body;`
- 6/1p. `int c; for( c=-4; c<=3; c++ ) body;`
- 7/1p. `int w; for( w=10; w<=11; ++w ) body;`
- 8/1p. `int d; for( d=4; d>-1; d++ ) body;`
- 9/1p. `int c; for( c=1; c!=-6; ++c ) body;`
- 10/1p. `int w; for( w=-6; w>-14; --w ) body;`
- 11/1p. `int n; for( n=-5; n>-10; n-- ) body;`
- 12/1p. `int t; for( t=6; t<9; ++t ) body;`
- 13/1p. `int x; for( x=1; x>0; --x ) body;`
- 14/1p. `int s; for( s=5; s>=0; --s ) body;`
- 15/1p. `int t; for( t=8; t>4; --t ) body;`
- 16/1p. `int q; for( q=-3; q!=-4; --q ) body;`
- 17/1p. `int h; for( h=10; h>3; --h ) body;`
- 18/1p. `int g; for( g=10; g>=10; g-- ) body;`
- 19/1p. `int b; for( b=-10; b!=-16; ++b ) body;`
- 20/1p. `int t; for( t=-4; t>=-9; t-- ) body;`

Total points 20.

**Answer Key** (points per line)

1 (1).	3
2 (1).	9
3 (1).	0
4 (1).	7
5 (1).	4
6 (1).	8
7 (1).	2
8 (1).	9
9 (1).	9
10 (1).	8
11 (1).	5
12 (1).	3
13 (1).	1
14 (1).	6
15 (1).	4
16 (1).	1
17 (1).	7
18 (1).	1
19 (1).	9
20 (1).	6

Total points 20.