

**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 j; for( j=9; j>=8; --j ) body;`
- 2/1p. `int y; for( y=-10; y<-3; y++ ) body;`
- 3/1p. `int q; for( q=5; q>=3; --q ) body;`
- 4/1p. `int c; for( c=7; c>=3; c++ ) body;`
- 5/1p. `int a; for( a=0; a<5; ++a ) body;`
- 6/1p. `int w; for( w=-9; w>=-13; w-- ) body;`
- 7/1p. `int s; for( s=-7; s>-13; ++s ) body;`
- 8/1p. `int u; for( u=-6; u>-8; u-- ) body;`
- 9/1p. `int n; for( n=-9; n!=-1; n++ ) body;`
- 10/1p. `int e; for( e=-4; e<-4; e++ ) body;`
- 11/1p. `int j; for( j=-5; j<-5; j++ ) body;`
- 12/1p. `int h; for( h=-4; h<=0; h++ ) body;`
- 13/1p. `int g; for( g=1; g<7; g-- ) body;`
- 14/1p. `int m; for( m=8; m>=9; --m ) body;`
- 15/1p. `int k; for( k=3; k!=-4; k-- ) body;`
- 16/1p. `int n; for( n=1; n<4; n++ ) body;`
- 17/1p. `int c; for( c=8; c>5; --c ) body;`
- 18/1p. `int f; for( f=-6; f<=1; ++f ) body;`
- 19/1p. `int p; for( p=-9; p>-10; p-- ) body;`
- 20/1p. `int a; for( a=-3; a<2; a++ ) body;`

Total points 20.

**Answer Key** (points per line)

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

Total points 20.