

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

Total points 20.

Answer Key (points per line)

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

Total points 20.