

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

Total points 20.

Answer Key (points per line)

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

Total points 20.