

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

Total points 20.

Answer Key (points per line)

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

Total points 20.