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R6.3 What do these code snippets print?
\mathbf{a}. int result = 0;
for (int i = 1; i <= 10; i++) { result = result + i; }
System.out.println(result);
b. int result = 1;
for (int i = 1; i <= 10; i++) { result = i - result; }
System.out.println(result);
c. int result = 1;
for (int i = 5; i > 0; i--) { result = result * i; }
System.out.println(result);
\mathbf{d}. int result = 1;
for (int i = 1; i \le 10; i = i * 2) { result = result * i; }
System.out.println(result);
R6.7 What do these loops print?
a. for (int i = 1; i < 10; i++) { System.out.print(i + " "); }
b. for (int i = 1; i < 10; i += 2) { System.out.print(i + ""); }
c. for (int i = 10; i > 1; i--) { System.out.print(i + ""); }
d. for (int i = 0; i < 10; i++) { System.out.print(i + ""); }
e. for (int i = 1; i < 10; i = i * 2) { System.out.print(i + " "); }
f. for (int i = 1; i < 10; i++) { if (i % 2 == 0) {
System.out.print(i + " "); } }
R6.10 What is an "off-by-one" error? Give an example from your own
programming experience.
R6.11 What is a sentinel value? Give a simple rule when it is
appropriate to use a numeric sentinel value.
R6.6 Provide trace tables for these loops. (skip exercise a)
b.
int i = 0;
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int j = 0;

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int n = 0;
while (i < 10)
{
     i++;
     n = n + i + j;
     j++;
}</pre>
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c.
int i = 10;
int j = 0;
int n = 0;
while (i > 0)
{
    i--;
    j++;
    n = n + i - j;
}
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d.
int i = 0;
int j = 8;
int n = 0;
while (i != j)
{
    i = i + 2;
    j = j - 2;
    n++;
}
```