

**Exercises 9.4**

For Exercises 1-11, assume that the following declarations have been made:

```
vector<int> number,  
           v(10,20),  
           w(10);  
int num;
```

Assume also that, for exercises that involve input, the following values are entered:

99 33 44 88 22 11 55 66 77 -1

Describe the contents of the given vector after the statements are executed.

```
3.      for (;;) {  
          cin >> num;  
          if (num < 0) break;  
          number.push_back(num);  
      }
```

For Exercises 5-11, assume that the loop in Exercise 3 has been executed.

```
10.     vector<int>::iterator iter = number.begin();  
        while (*iter > 25) {  
            number.erase(iter);  
            iter++;  
        }
```

```
11.     for (vector<int>::iterator iter = number.begin();  
             iter != number.end();  
             iter++)  
        w.push_back(*iter+1);
```

2. Write an algorithm or code segment for searching a circular linked list for a given item.

3. Proceed as in Exercise 2, but assume that the list is ordered so that the elements are in ascending order.

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7. Proceed as in Exercise 6, but do not copy the items. Just change links in the two lists (thus destroying the original lists) to produce the merged list.