```
13-2.cpp
                                                                       C:\devcpp\hw13\hw13-2\13-2.exe
     #include <iostream>
     using namespace std;
                                                                      Enter integer search keyl6
                                                                      Found value in element 8
 4
     int linearSearch( const int [], int ,int );
 6
     int main()
 7 🖃
                                                                      Process exited after 39.82 seconds with return value 0
         const int arraySize = 100;
 8
                                                                      請按任意鍵繼續 . . .
 9
         int a[arraySize];
10
         int searchKey;
         for (int i = 0; i < arraySize; i ++) //original problem</pre>
11
12 🚍
13
             a[i] = 2*i;
14
15
         cout << "Enter integer search key";</pre>
16
         cin >> searchKey;
17
18
         int element = linearSearch(a, searchKey, arraySize);
19
         if ( element != -1)
20
             cout << "Found value in element " << element << endl;</pre>
21
22
         else
23
             cout <<"Value not found " << endl;</pre>
24
         return 0;
25
26
27
      int linearSearch( const int array[], int key ,int sizeOfArray)
28 🖵 {
         if ( key == array[sizeOfArray-1] )
29
30
             return sizeOfArray-1;
31
         else
32 🖃
             if ( sizeOfArray>1 )
33
                 linearSearch (array, key, sizeOfArray-1);
34
35
             else
36
                 return -1;
37
38
40
```