46

47 48

```
...\DelegadosConclusion\DelegadosConclusion\Program.cs
 1 namespace DelegadosConclusion
 2 {
 3
        internal class Program
 4
            static void Main(string[] args)
 5
 6
 7
                // TEST FILTER
 8
 9
                FilterClass<string> test1 = new FilterClass<string>();
10
11
                FilterClass<string>.DelegateFilter del1;
12
                del1 = new FilterClass<string>.DelegateFilter(element =>
                  element.Length > 0);
13
14
                test1.Filter(del1);
15
                test1.Filter(element => element.Length > 0);
                test1.Filter(element => { return element.Length > 0; });
16
17
                test1.Filter(element =>
18
19
                    return element.Length > 0;
20
                });
21
22
                // TEST SORT
23
2Ц
                SortClass<string> test2 = new SortClass<string>();
25
26
27
                SortClass<string>.DelegateSort del2;
                del2 = new SortClass<string>.DelegateSort((item1, item2) => >
28
                  item1.Length < item2.Length ? 1 : 0);</pre>
29
30
                test2.Sort(del2);
                test2.Sort((item1, item2) => item1.Length < item2.Length ?</pre>
31
                  1:0);
32
                test2.Sort((item1, item2) => { return item1.Length <</pre>
                  item2.Length ? 1 : 0; });
                test2.Sort((item1, item2) =>
33
34
35
                    return item1.Length < item2.Length ? 1 : 0;</pre>
36
                });
37
38
39
                // TEST VISIT
40
41
                List<string> list = new List<string>();
42
43
                VisitClass<string> test3 = new VisitClass<string>();
44
45
                VisitClass<string>.DelegateVisit del3;
```

del3 = new VisitClass<string>.DelegateVisit(element =>

element = "Elemento: " + element);

test3.Visit(del3);

```
...\DelegadosConclusion\DelegadosConclusion\Program.cs
               test3.Visit(element => element = "Elemento: " + element);
49
50
               test3.Visit(element => {element = "Elemento: " + element;});
               test3.Visit(element =>
51
52
                   element = "Elemento: " + element;
53
54
               });
55
          }
56
       }
```

57 }

```
1 namespace DelegadosConclusion
 2 {
 3
 4
       public class FilterClass<T>
 5
 6
            private List<T> _list = new List<T>();
 7
            public delegate bool DelegateFilter(T element);
 8
 9
            public List<T> Filter(DelegateFilter del)
10
11
                if (del == null)
12
13
                    return null;
14
15
                List<T> filterList = new List<T>();
16
17
                for (int i = 0; i < _list.Count; i++)</pre>
18
                    if (del(_list[i]))
19
                        filterList.Add(_list[i]);
20
21
                }
22
23
                return filterList;
24
            }
25
       }
26 }
```

```
1 namespace DelegadosConclusion
 2 {
 3
        public class SortClass<T>
 4
            private List<T> _list = new List<T>();
 5
 6
 7
            public delegate int DelegateSort(T element1, T element2);
 8
            public List<T> Sort(DelegateSort comparison)
 9
10
                if (comparison == null)
11
12
                    return null;
13
14
                List<T> listSort = new List<T>();
15
                for(int i = 0; i < _list.Count - 1; i++)</pre>
16
17
                {
                    for(int j = i + 1; i < _list.Count; j++)</pre>
18
19
                        if (comparison(_list[i], _list[j]) >= 1)
20
21
22
                             T aux;
23
                             aux = _list[i];
24
                             _list[j] = _list[i];
25
                             _list[j] = aux;
26
                         }
                    }
27
28
29
                return listSort;
30
            }
31
        }
32 }
```

```
1 namespace DelegadosConclusion
 2 {
 3
       public class VisitClass<T>
 4
           private List<T> _list = new List<T>();
 5
 6
           public delegate void DelegateVisit(T visitor);
7
 8
           public void Visit(DelegateVisit visitor)
9
10
               if (visitor == null)
11
12
                   return;
13
14
               foreach(T element in _list)
15
16
                   visitor(element);
17
               }
18
           }
19
       }
20 }
21
```