```
1
 2
 3
     Laboratory : labo_11
                 : searchers.h
     Author(s) : Yannick Schaufelberger et David Gallay
 6
                 : 18.01.2020
 7
 8
                 : Library defining the Searchers and functions to modify, get values or
 9
                   display a SearchersList
     Remark(s)
10
11
12
                      There is the github repository:
13
                     https://github.com/dgheig/labol1
14
15
     Compilator : MinGW-g++ 6.3.0 and g++ 7.4.0
                                                 -----*/
16
17
18
     #ifndef SEARCHERS H
19
     #define SEARCHERS H
20
21
     #include "map.h"
22
     #include <cstdlib> //size t
23
     #include <vector>
24
     #include <string>
25
26
     enum ResearcherStatus {
27
       UNDEFINED,
28
       RICH,
29
       LOST,
30
        DROWNED,
31
       EXHAUSTED
32
     };
33
34
     typedef std::vector<int> Searcher;
35
     typedef std::vector<Searcher> SearcherList;
36
37
     * @param stepsValue
38
     * @param statusValue
39
40
      ^{\star} \mbox{\ensuremath{\mbox{\it Greturn}}} a searcher initialized with the given values
41
42
     Searcher initSearcher(int stepsValue = 0, ResearcherStatus statusValue = UNDEFINED);
43
44
     * @param searcher
45
46
     * @return the amount of steps taken by a searcher
47
48
     int getSteps(const Searcher& searcher);
49
     * @param searcher
50
51
     * @return the status of a searcher
52
53
     int getStatus(const Searcher& searcher);
54
     * @param searcher
55
56
      * @return a string containing the status of a searcher
57
58
     std::string getStatusString(const Searcher& searcher);
59
60
     ^{\star} \mbox{{\it @brief}} sets the steps of a searcher to the given value
61
62
     * @param searcher
63
     * @param value
     * @return true if success
64
65
     * /
66
     bool setSteps(Searcher& searcher, int value);
67
     * @brief sets the status of a searcher to the given value
68
     * @param searcher
69
      * @param value
70
71
      * @return true if success, false if not
72
73
     bool setStatus(Searcher& searcher, ResearcherStatus value);
74
75
76
     * @brief displays the information of every searcher in the list
     * @param list
77
```

```
78 * @return true if success, false if not
79 */
80 bool displaySearcherList(SearcherList& list);
81
82 #endif //SEARCHERS_H
```