

```

1 package main
2
3 import "fmt"
4 const MAXSIZE = 20192020
5 type RecType struct {
6     count int
7     size int
8 }
9 type ArrType [MAXSIZE]RecType
10
11 func main() {
12
13
14
15
16 }
17 func iSort(tab *ArrType, nsize int) {
18     var i int
19     var t int
20
21     i = 1
22     for i < nsize {
23         t = tab[i].count
24         j := i - 1
25         for j >= 0 && tab[j].count > t {
26             tab[j+1].count = tab[j].count
27             i++
28         }
29         tab[j+1].count = t
30         i++
31     }
32 }
33
34 func mSort(tab *ArrType, nsize int) {
35     i := 0
36     for i < nsize {
37         max := 1
38         j := 1
39         for j < nsize {
40             if tab[j].size > tab[max].size {
41                 max = j
42             }
43             j++
44         }
45         temp := tab[i].size
46         tab[i].size = tab[max].size
47         tab[max].size = temp
48         i++
49     }
50 }
51
52 func isFound(tab ArrType, n int, v int) bool {
53     kr := 0
54     kn := n
55     found := false
56     for kr < kn && !found {
57         med := (kr+kn)/2
58         if tab[med].count < v {
59             kr = med + 1
60         } else if tab[med].count > v {
61             kn = med
62         } else {
63             found = true
64         }
65     }
66     return found
67 }

```

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24         j := i - 1
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27             i++
28         }
29     }
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31     i++
32 }
33
34 func mSort(tab *ArrType, nsize int) {
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37         max := 1
38         j := 1
39         for j < nsize {
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41                 max = j
42             }
43             j++
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