```
#include <iostream>
1
    #include <vector>
 3
    #include<algorithm>
    using namespace std;
    //Предикат
    bool gt5(float arg)
 7
    {
8
         return arg > 5.;
9
    }
10
    int main(int argc, char** argv)
11
         int a[] = \{8, 3, 5, 2, 9\};
12
13
         int b[10];
14
         copy(a, a + 3, b);
         for (int i = 0; i < 3; i++)
15
16
             cout << b[i] << " ";
17
18
         cout << endl;</pre>
19
    //8 3 5
20
         sort(a, a + 5);
21
         for (int i = 0; i < 5; i++)
22
23
24
             cout << a[i] << " ";
25
         }
         cout << endl;</pre>
26
    //2 3 5 8 9
27
         vector<float> v(8);
28
29
         v[0] = 6.4;
30
         v[1] = 2.0;
         v[2] = 3.5;
31
         v[3] = 2.4;
32
33
         v[4] = 8.1;
         v[5] = 7.8;
34
         v[6] = 5.3;
35
         v[7] = 4.2;
36
         for (int i = 0; i < 8; i++)
37
38
39
             cout << v[i] << " ";
40
         }
         cout << endl;</pre>
41
      //6.4 2 3.5 2.4 8.1 7.8 5.3 4.2
42
43
         sort(v.begin(), v.end());
44
         for (int i = 0; i < 8; i++)
45
             cout << v[i] << " ";
46
47
         }
48
         cout << endl;</pre>
     //2 2.4 3.5 4.2 5.3 6.4 7.8 8.1
49
         random shuffle(v.begin(), v.end());
50
         replace if(v.begin(), v.end(), gt5, 5.);
51
         for (int i = 0; i < 8; i++)
52
53
54
             cout << v[i] << " ";
55
         }
56
         cout << endl;</pre>
57
    //5 4.2 5 5 2 5 3.5 2.4
         system("pause");
58
59
         return (EXIT_SUCCESS);
    }
60
```