```
/* The following code example is taken from the book
 * "The C++ Standard Library - A Tutorial and Reference"
 * by Nicolai M. Josuttis, Addison-Wesley, 1999
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 * warranty, and with no claim as to its suitability for any purpose.
#include "algostuff.hpp"
using namespace std;
int main()
    vector(int) coll;
    INSERT ELEMENTS (col1, 3, 7);
    INSERT ELEMENTS (col1, 5, 9);
    INSERT ELEMENTS (col1, 1, 4);
                                                      ");
    PRINT_ELEMENTS (coll, "on entry:
    // convert collection into a heap
    make heap (coll.begin(), coll.end());
    PRINT ELEMENTS (coll, "after make heap():
                                                      "):
    // pop next element out of the heap
    pop heap (coll.begin(), coll.end());
    coll.pop back();
    PRINT_ELEMENTS (coll, "after pop_heap():
                                                      ");
    // push new element into the heap
    coll. push back (17);
    push heap (coll.begin(), coll.end());
    PRINT_ELEMENTS (coll, "after push heap(): ");
    /* convert heap into a sorted collection
     * - NOTE: after the call it is no longer a heap
    sort heap (coll.begin(), coll.end());
    PRINT ELEMENTS (coll, "after sort heap(): ");
```