

```
1: #define BOOST_TEST_DYN_LINK
2: #define BOOST_TEST_MODULE Main
3: #include <boost/test/unit_test.hpp>
4:
5: #include <vector>
6: #include <exception>
7: #include <stdexcept>
8:
9: #include "StringSound.hpp"
10:
11: BOOST_AUTO_TEST_CASE(GS)
12: {
13:     std::vector<sf::Int16> v;
14:     v.push_back(0);
15:     v.push_back(2000);
16:     v.push_back(4000);
17:     v.push_back(-10000);
18:
19:     BOOST_REQUIRE_NO_THROW(StringSound ss = StringSound(v));
20:
21:     StringSound ss = StringSound(v);
22:
23:     // StringSound = 0 2000 4000 -10000
24:     BOOST_REQUIRE(ss.sample() == 0);
25:
26:     // StringSound = 2000 4000 -10000 996
27:     ss.tic();
28:     BOOST_REQUIRE(ss.sample() == 2000);
29:
30:     // StringSound = 4000 -10000 996 2988
31:     ss.tic();
32:     BOOST_REQUIRE(ss.sample() == 4000);
33:
34:     // StringSound = -10000 996 2988 -2988
35:     ss.tic();
36:     BOOST_REQUIRE(ss.sample() == -10000);
37:
38:     // StringSound = 996 2988 -2988 -4483
39:     ss.tic();
40:     BOOST_REQUIRE(ss.sample() == 996);
41:
42:     // StringSound = 2988 -2988 -4483 1984
43:     ss.tic();
44:     BOOST_REQUIRE(ss.sample() == 2988);
45:
46:     // StringSound = -2988 -4483 1984 0
47:     ss.tic();
48:     BOOST_REQUIRE(ss.sample() == -2988);
49:
50:     //more
51:     ss.tic();
52:     BOOST_REQUIRE(ss.sample() == -4483);
53:     ss.tic();
54:     BOOST_REQUIRE(ss.sample() == 1984);
55:     ss.tic();
56:     BOOST_REQUIRE(ss.sample() == 0);
57: }
```