

```
1: // $Id: string2int.cpp,v 1.15 2014-06-20 22:46:10-07 - - $
2:
3: //
4: // NAME
5: //     str2int-stream - print out argv elements that are ints
6: //
7: // SYNOPSIS
8: //     str2int-stream [string...]
9: //
10: // DESCRIPTION
11: //     Prints out its arguments that are ints, and which are not.
12: //
13:
14: #include <iostream>
15: #include <sstream>
16: #include <stdexcept>
17: #include <string>
18: #include <vector>
19: using namespace std;
20:
21: int from_string (const string &arg) {
22:     stringstream stream (arg);
23:     int result;
24:     if (not (stream >> result and stream.eof())) {
25:         throw domain_error ("int from_string (" + arg + ")");
26:     }
27:     return result;
28: }
29:
30: int main (int argc, char **argv) {
31:     cout << boolalpha;
32:     vector<string> args (&argv[0], &argv[argc]);
33:     for (const auto& arg: args) {
34:         cout << "\"" << arg << "\"" << endl;
35:         try {
36:             int number = from_string (arg);
37:             cout << "          success: number = " << number << endl;
38:         } catch (const domain_error &error) {
39:             cout << "          failure: " << error.what() << endl;
40:         }
41:     }
42:     return 0;
43: }
44:
45: /*
46: //TEST// ./string2int 1024 56foobar -45 68.9 testing 007777 0x48 \
47: //TEST//      2147483648 2>&1 >string2int.output
48: //TEST// mkpspdf string2int.ps string2int.cpp* string2int.output
49: */
50:
```

[illegible]

```
1: "./string2int"
2:         failure: int from_string (./string2int)
3: "1024"
4:         success: number = 1024
5: "56foobar"
6:         failure: int from_string (56foobar)
7: "-45"
8:         success: number = -45
9: "68.9"
10:        failure: int from_string (68.9)
11: "testing"
12:        failure: int from_string (testing)
13: "007777"
14:        success: number = 7777
15: "0x48"
16:        failure: int from_string (0x48)
17: "2147483648"
18:        failure: int from_string (2147483648)
```