```
1: // $Id: stoi.cpp, v 1.15 2014-04-09 15:28:50-07 - - $
 2:
 3: //
 4: // NAME
 5: //
          stoi - print out argv elements that are ints
 6: //
 7: // SYNOPSIS
 8: //
          stoi [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 main (int argc, char **argv) {
22:
       cout << boolalpha;</pre>
23:
       for (const auto& arg: vector<string> (&argv[1], &argv[argc])) {
          cout << "\"" << arg << "\": ";
24:
25:
          try {
26:
             size_t endpos;
27:
             int number = stoi (arg, &endpos);
28:
             if (endpos == arg.size()) {
29:
                 cout << "good number = " << number << endl;</pre>
30:
             }else {
31:
                cout << "bad number = " << number << ", trailing junk = \""</pre>
                      << arg.substr (endpos) << "\"" << endl;
32:
33:
             }
          }catch (invalid_argument &error) {
34:
35:
             cout << "invalid_argument (" << error.what() << ")" << endl;</pre>
36:
          }catch (out_of_range &error) {
37:
             cout << "out_of_range (" << error.what() << ")" << endl;</pre>
38:
          }
39:
       }
40: }
41:
42: /*
43: //TEST// ./stoi 1024 56foobar -45 68.9 testing 007777 0x48 \
                     2147483648 >stoi.lis
44: //TEST//
45: //TEST// mkpspdf stoi.ps stoi.cpp* stoi.lis
46: */
47:
```

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## \$cmps109-wm/Examples/wk02a-using-stl/stoi.cpp.log

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## \$cmps109-wm/Examples/wk02a-using-stl/stoi.lis

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```
1: "1024": good number = 1024
2: "56foobar": bad number = 56, trailing junk = "foobar"
3: "-45": good number = -45
4: "68.9": bad number = 68, trailing junk = ".9"
5: "testing": invalid_argument (stoi)
6: "007777": good number = 7777
7: "0x48": bad number = 0, trailing junk = "x48"
8: "2147483648": out_of_range (stoi)
```