Sales Tax Program Proposal Revisions*

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Recent revisions to the sales tax proposal affect the following tasks:

1 Tasks: Status, Code, and Recent Changes

1.1 Parsing Input

Proposal revision: An `input` clause was introduced, and its `address` and `items` subclauses can appear in any order. This change will require more programming of the parsing code and may require changing the existing input parsing code.

Code Changes: `address.h`, `items.h`, and `parser.h` modified to better deal with extraneous whitespace, i.e., whitespace between the initial parenthesis and the keyword and whitespace before the closing parenthesis.

1.2 Input Generation

Proposal revision: See the changes to the `input` clause listed in Section 1.1.

1.3 Determining ZIP+4 Codes

Proposal revision: The `address` class, not the `ZIP` class yields the first three, five, and nine digits of a postal code. This is probably a mistake, but this is the specification I told the team so let's stick with that.

Status: Code submitted. Quick test seems to indicate successful ZIP+4 lookup. Needs to be able to handle `address` objects with state specified with full-length string, not two-character abbreviation. Jeffrey split the code into pieces.

1.4 Hash Tables

Proposal revision: Class names have been changed to `taxJurisdiction` and `taxRate`. The order of hash table lookup has been reversed to, hopefully, reduce the size of the hash tables. The order is now from nine-digit to three-digit. Thus, the three-digit hash table should be filled with data, but the other ones will just have exceptions to the preceding hash table.

1.5 Taxability Lookup

Proposal revision: A `taxability` clause must begin with the keyword `taxability`, and the first subclause must be a `upc` subclause. The `default` subclause may have an `unknown` argument, and only the last occurrence of this subclause is used to determine the default taxability status. If no entry for a particular item is found, its taxability is considered `notFound`, rather than `unknown`. `unknown` means the tax laws are ambiguous or not defined. `notFound` means our server does not have information on the specified item.

1.6 Master Integrator

Proposal revision: An `output` specification was added. This needs to be programmed.