Opg. 1 – Screendump

```
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-- Opgave 1 --
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Ref Tekst              Kontant
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  1 Sko                1025.25
  2 Toj                 699.99
  1 Taske              1500.00
  1 Andet               249.90
  1 Toj                 530.15
  2 Sko                 799.00
  2 Andet               225.40
```

Opg. 1 – Table.h

```cpp
#ifndef TABLE_H
#define TABLE_H

#include <vector>
#include <ostream>
#include <tuple>

class Table
{
public:
    Table() {}
    void setHeaders(const std::string& h1, const std::string& h2, const
std::string& h3);
    void addData(const int i, const std::string& s, const double d);
    void outputData(std::ostream &os);

private:
    std::tuple<std::string, std::string, std::string> mHeaders;
    std::vector<std::tuple<int, std::string, double>> mData;
};

#endif // TABLE_H
```

Opg. 1 – Table.cpp

```cpp
#include "Table.h"
#include <iomanip>
#include <string>
#include <sstream>

void Table::setHeaders(const std::string &h1, const std::string &h2, const std::string &h3)
{
    mHeaders = std::make_tuple(h1, h2, h3);
}

void Table::addData(const int i, const std::string &s, const double d)
{
    mData.push_back(std::make_tuple(i, s, d));
}

void Table::outputData(std::ostream &os)
{
    os << "\n"
        << std::get<0>(this->mHeaders)
        << " "
        << std::get<1>(this->mHeaders)
        << std::setw(27) << std::right
        << std::get<2>(this->mHeaders)
        << "\n----------------------------------\n";

    for (std::tuple elem : this->mData)
    {
        std::stringstream stream;
        stream << std::fixed << std::setprecision(2) << std::get<2>(elem);
        std::string fixed_deci_string = stream.str();

        os << std::setw(3)
            << std::get<0>(elem)
            << " "
            << std::get<1>(elem)
            << std::setw(32-std::get<1>(elem).size()) << std::right
            << fixed_deci_string
            << "\n";
    }
}
```