**Steffen Beudeker - s2503166**

**Jos Peters - s2701634**

**Exercise 10.**

*For this exercise we need to construct a program creating a multiplication table.*

#include <iostream>

#include <string>

using namespace std;

int main (int argc, char \*\*argv){

int value = stoi(string(argv[1]));

for (int n = 1; n <= 10; ++n) {

cout << value << " \* " << n << " = "

<< value \* n << '\n';

}

}

**Exercise 2 on next page**

**Exercise 2.**

*Design a program showing all combinations of all the program's command line arguments.*

#include <iostream>

#include <math.h>

using namespace std;

int main (int argc, char \*\*argv)

{

//Define count as number of combinations needed

int count = pow(2, argc - 1);

//Iterate over steps

for(int step = 0; step != count; step++)

{

//Print step number

cout << step + 1 << ": ";

//Iterate over every argument

for(int argument = 0; argument != argc; argument++)

{

//Assign bit to argument

int bitnum = pow(2,argument);

//Check if argument is part of this particular combination

if((bitnum & step) != 0)

{

//If true, print argument in line

cout << argv[argument + 1] << " ";

}

}

//Go to next step

cout << "\n";

}

}