**Problem Set: Arrays**

This document includes a set of programming problems. Some of the problems were discussed in the lectures (הרצאות), recitations (תירגולים), and the workshops (סדנאות). Some problems are new. Most of the problems are relatively easy, and are given as optional, self-study exercises. There is no need to submit any answers.

Some problems show a program and ask what it does. Try answering these questions without writing and executing the programs. Other problems task you to write programs. You can write these programs on paper, or try to write and execute them – do what you can to flex your muscles and improve your skills.

In terms of time allocation, you should focus first on completing the weekly homework assignments. If you have more time and feel the need, you can also work on this problem set.

13. Consider the program:

// program 14a

public static void main(String[] args) {

int iteration = 0;

int count = 0;

while (iteration < 5) {

for (char letter : "hello, world".toCharArray()) {

count += 1;

}

System.out.println("Iteration " + iteration + "; count is: " + count);

iteration += 1;

}

}

What are the values of the variable count that are printed at iterations 0, 1, 2, 3, 4? Note: When we show a program that uses something that we haven’t discussed in the course, we expect you to use the Internet to explore this thing on your own. For example, here you can try to figure out yourself what the