Current Task was about recursion in algorithms which for our team was a bit challenging topic. However, through explaining to each other we formed proper in-depth knowledge about the usage of recursion.

This time we have again decided to tackle the questions in the same way: each of us prepared his own solutions and ideas for each task and during a meeting, we will combine them. Through this method we learn about each other’s diverse thinking methods and ideas more quickly and easier. Through these we obtained well-balanced answers for each question and include each team member’s ideas equally.

During this task, I had most of my input in Task 2. We have started working on Task 2 before on Task 1 and afterwards, I have realized that we can use an alike algorithm for Task 1. I have thought of having the line counting feature in Task 2 and the position of integer through which we were able to construct all the possible binary values with the given number.

Through this task, I have learnt more about recursion in algorithms and realized how effective and interesting its working method is. I have learnt how to use it in an algorithm in different ways. I have also learnt about various thinking methods such as numbering the lines of output and digit placement.

Throughout this course unit, I was able to explore the world of algorithms which take up a crucial role in further programming. I have learnt to have multiple perspectives at given tasks and studied how diversely we can solve a problem that was simple at first glance.

All in all, I have enjoyed my teamwork throughout the coursework tasks and I may state that our team has done a great job in collaborating together and each member has shown responsibility to complete and always participate in the group tasks and meetings.

Our group was organized and responsible. The group organization was on a high level as each member had a various point of views for each task and through using all the ideas and opinions we were able to conduct a well-organized answer for the tasks. The only weakness that I may consider is that our meetings could have been even more productive if we could plan the questions for discussing beforehand. The problem was that we were jumping from question to question quickly which didn’t give us the opportunity to focus on one specific question.

This time my contribution was that I helped some of my team members to understand the working of all the algorithms and worked on conducting new graphs for task 2. I have also addressed some differences between the sample algorithm and Algorithm 1, such as the algorithm 1 didn’t have an explicit output mentioned but just added the result to a set while the sample algorithm had a specific line for outputting the matching pairs.

Through this coursework, I was able to learn about an interesting algorithm that was able to find the shortest path between two nodes. My further research has shown that the algorithm is called Dijkstra’s algorithm. I have also learnt about how to correctly count the steps/time the algorithm takes to work and about the idea of having tentative values attached to nodes which my research has shown to be very useful in graphing algorithms and programs.

All in all, I believe that our group work was on a decent level and we were able to introduce clearly organized and informative answers.