

INF5510 - Exercise 2

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Exercise

Doing this exercise will make you better prepared for home exams.

Exercise 1 - Unavailable

Distribute objects around in a emerald network(either on Planetlab or on Ifi machines). Let the object have a routine where they tell the central Node they are alive. Use unavailable to make the program robust against crashes, this should handle crash of central node too.

Exercise 2 - Travelling man

Make a travelling man where it then tries to travel to 5 nodes. The travelling man should travel to all nodes and stay there for 20 seconds before it depart to the next node. If the man dies because of a dead node, generate a new man that will try to reach all nodes that still alive.

Exercise 3 - Mailbox

Make a simple mailbox functionality so peer objects can share data whit each other. Have a central server that all data is send to, and let the server notify the other peers that data is available so that they can fetch it from the server. In this exercise, you have to consider the **attached** on the variables. There is no functionality for removing a specific data from an array, you have to also consider and make your own **remove** operation.

Exercise 4 - Mailbox multicaster

Give the mailbox the ability to multicast to given node addresses. This has to go through a central server and the server has to do a lookup to find the matching LNN.