

5. a) A new online service: www.cookingfordummies.com, is started to give people access to cooking recipes on the web. Your responsibility is the implementation of a search engine for the recipes. The recipes are numbered and named and the user can search for:
- the recipe number N
 - the recipe called X
 - recipes that meet certain requirements: foods for vegetarians, vegans etc. or foods that contain a given ingredient (e.g. chicken, pork, asparagus)

Describe the implementation you would choose in principle. Which STL data structures would you need? Try to avoid multiplication of the data in your solution. A picture would be nice.

(5 p)

- b) Tell us your opinion on the course. What should be changed or improved and what should be kept as it is? How did you find TRAKLA? Do you find the course useful? How often did you attend the lectures? Write your answer on a separate page, alone without your name, but turn it in together with your exam answers.
(1 p)