

**Exercise for the lecture Modeling Methods in Computer Science,
Winter Semester 2007/08**

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Consultation-hour: Thursday, 15:00-16:00

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Exercise Sheet 6Due date: **28.11.2007, 14:00**

Exercise 11: State Transition Diagrams

- (a) Model the „life cycle“ of a single delivered piece of homework as a state transition diagram. To simplify matters you can assume that each piece of homework consists of only one exercise. Give a written explanation of each state!
- (b) Model the path of an e-mail from sending on the author’s side to receiving with the addressee’s mail client as a state transition diagram. Give a written explanation of each state!

5 + 5 = 10 Points

Exercise 12: Activity Diagrams

- (a) Create an activity diagram for the correction of homework. Start with „Publish online“ (i.e. the the exercises are released on the website) and conclude with two alternate activities:
- „Pick up in one of the exercises“ or „Pick up in the consulting hour“. Give a written description for your diagram and explain the meaning of each activity in detail.
- (b) Extend the diagram from a), adding the following activities:
- „Check correction“ — the tutor checks the correction of an exercise that has been objected to
 - „Correct score“ — if an exercise has not been corrected accurately the student’s score in the database has to be adjusted accordingly

Add further activities if necessary.

6 + 4 = 10 Points