CH-230-A

Programming in C and C++

C/C++

Lecture 14

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Fall 2020

Practice Sheet



- ► Practice sheet
 https://grader.eecs.jacobs-university.de/courses/
 ch_230_a/2020_2/assignments/practice_sheet.pdf
- Final exam could have similar exercises
- ► Final exam will contain 9-11 problems
- Exercise writing code on paper
- Ask questions on Friday and Saturday (help sessions), Monday (office hours and grand tutorial)
- ► Attend the grand tutorial on Monday, the 7th of December, 2020, 19:00 21:00 online via Teams
- ► Final exam: Tuesday, 8th of December, 2020, 12:30 14:30 in SCC Hall 1, Hall 2, Hall 3, Hall 4

Common Mistakes in Exams

- Not reading the problem statement carefully
- Forgetting to allocate dynamic memory
- Forgetting to deallocate dynamic memory
- Forgetting to check the success of memory allocation for malloc
- Forgetting to check the success of opening files for fopen
- Writing components of programs which were not asked for
- Forgetting to close files at the end of program

Common Mistakes in the Assignments (1)

- Not initializing a variable and then increment it by 1 or
- Not closing files
- When supposed to return an array of characters, return a character at position i
- Using 0 for bit mask instead of 1
- Not using bitwise operators and bit masks properly
- Segmentation fault because of missing memory allocation

Common Mistakes in the Assignments (2)

- Forgetting to check for corner cases (i.e., data structure is empty when remove or add, data structure is full when add)
- ► Incorrect usage of const
- Inconsistencies between prototypes and function/method definition
- Consider if input may or may not contain spaces
- Problem with copy constructor and overloading =



Missing the Final Exam (1)

Consequences of unexcused absence:

- Will automatically be scheduled to sit in the next make-up exam
- Unexcused absence will be counted as failed attempt of their first trail (out of three)

Missing the Final Exam (2)

Consequences of excused absence:

- ► All students will automatically be scheduled to sit in the next make-up exam
- ► The make-up exam is the first trial in a module exam for 1st year UG students
- ► Bachelor policies for UG students as of Fall 2020 https://www.jacobs-university.de/sites/default/ files/bachelor_policies_v3.5.pdf
- ▶ Bachelor policies for UG students as of Fall 2019 https://www.jacobs-university.de/sites/default/ files/bachelor_policies_v3.pdf

Valid Official Excuse

- Notify instructor before missing exams (before start of the exam)
- Go to or call the doctor while you are sick not after
- Submit excuse to Registrar Office the latest on first day after the end of sickness
- ► All of the above have to be satisfied for obtaining an excused absence for a final exam

Cancelling a Passing Grade for the Exam

- Currently, the policies do not include a grade improvement possibility for final exams
- ▶ If you feel strongly about being able to write a better grade, you can strike out the whole content of the exam before submission, you will receive 0% and you can write the exam again in January 2021
- In this case you will loose one trial to pass from the three possible trials
- Use this very carefully