

Advanced Programming COEN 11

Lab 4

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❑ People List - information

- Name
- Age
- Status
 - Age <= 21 - name of school
 - 21 < Age < 65 - salary per month
 - Age >= 65 - years of retirement

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❑ People List -- commands

- 1 - to input a person
 - Name, Age, Status
- 2 - to delete a person
 - Name
- 3 - to show the current list of info
- 4 - to quit

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❑ Your program has 1 array of structures

➤ Each struct has three members

- name - char array
- age -- int
- status - union (type depends on age)
 - Each union has three members
 - » school name (age <= 21) - char array
 - » salary per month (21 < age < 65) - float
 - » year of retirement (age >= 65) - int

Lab 4

- ❑ Your program keeps a counter, which indicates how many elements are in the list
- ❑ According to the command, the program
 - 1 - insert an element at the position indicated by counter and increase the counter
 - 2 - delete the element with the given name
 - to keep all the elements together, copy the last one to the deleted one and decrease the counter
 - 3 - show all the elements, from position zero to counter-1
 - 4 - quit

Lab 4

- ❑ Requirements
 - 1 array of structures
 - one of the members in the struct is a union
 - Global variables:
 - array and counter ONLY!!
 - 4 functions:
 - main, insert, delete, show