

Advanced Programming COEN 11



Surf School Waiting List

- Change lab 3 to use an array of structs with unions
 - Include a union in your struct



Extra information

- Name
- Size
- Max age
 - 1 Minor, ask for parent or guardian phone number
 - 2 Senior, ask for age of youngest in group
 - Otherwise ask for average age of group
- Extra info, depends on max age
 - <18 phone of an adult, string</p>
 - >65 min age, integer
 - Otherwise Average age of group, float



- Menu -- commands
 - **-** 1
 - Include age category and extra info
 - -2, same
 - -3
 - Need to add ages and extra info
 - -4, same
 - -0, same

Obs: You don't need to change option 2 (delete) unless you are not copying the whole structure when shifting, but copying the string and the number separately. You can copy the structure using '='



- Your program has 1 array of structures
 - Each struct has four members
 - name char array (string)
 - size integer
 - max age— integer
 - extra_info union (type depends on max age)
 - Each union has three members
 - » < 18 phone of an adult, string</p>
 - $> 60 \min age, int$
 - » Otherwise average age, float



- Requirements
 - 1 array of structures
 - one of the members in the struct is a union
 - Global variables
 - Array and counter ONLY!
 - No other global variable is allowed. Points will be taken from your code otherwise.
 - 5 functions, same
 - main, insert, delete, show, check_size, check_duplicate



- Programming best practices
 - Use indentation and alignment to make clear which statements are inside a function, conditional or loop.
 - Declare local variables at the beginning of a function, not in the middle.
 - Do not declare variables as global unless it is absolutely necessary (only the ones I allow you to).
 - Use meaningful names for variable, structures, constants and functions
 - Use comments in your code, but do not comment the obvious.



No pre-lab this week



End