MGANI, MATE! UNIVERSITY OF DAR ES SALAAM COMPUTERSCIENCE AND ENGINEERING DEPARTMENT 14-75 IS 136: C PROGRAMMING TEST 11 - June 2011 45 min

Instructions: Answer ALL Questions

1. Define a structure named kituo which has as its attribute as salary of type float, and a

pointer link to hold an address of the next element, call it link (2 points)

a. Declare a pointer variable called matumizi, whose data type is the structure you A Allocate a computer memory space for the variable matumizi you have just

c. If the variable holding the address of the first element is called thehead, define

variable called moving and use it to move from the beginning of the list to the end, while multiplying the salary value by two for each node. (3 points)

The following program intends to write to a file B. called Input.txt as long as the user has not entered a character to represent the end of file. However, the lines of the program have been mixed. You are required to re-arrange the lines so the program does what is intended, and for each line write also what it does. (5 points)

main() ? 1. charc: 3. FILE "11" 4. Mincludesstdio.hs . 5. putc(c,f1); 6. f1=fopen("input.txt", "w"); " fclose(fl): " 8. 9. while((c=getchar()))=EOF) = 10.

For each statement in the list below, say whether they are TRUE or FALSE. Write yo answers in Capital Letters (T for True and F for False ) (0.5 points each)

FILE functions cannot work without including he string.h file

While Stacks apply LIFO, Queues apply FIFO

In linked lists the memory address of the last node is always NULL

Malloc function is the one that controls the entire computer memory and not the Operati

When accessing members, arrays are more efficient than linked lists

Initialization means giving a variable some value while declaration means specifying amount of memory to be reserved for a variable