

First, the struct is used to make a linked list. the two attributes of the struct are the value that will be a student and the other is the next pointer that will point to the next struct.

Then for making a linked list we have iterated and used h_node ptr that is pointing to the header of the linked list. A t_node that is used as temp node to hold a new malloc node then p_node that is used to hold the current node.

After iterating the char array, half of the list is iterated regularly and for the other half, the list is reversed using three new pointers th_node, which is a temporary head node. which will save the last node before null. Then the second t2_node that saves the next value of t_node, then t3_node, that holds value to be assigned to the t_node. and the whole list is reversed.

Then the lists are joined then in the last whole linked list is iterated and saved in a char array using the append function, that appends the new letter into the char array.