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PRIOR THOUGHTS

Solve the problem by few blocks, each block is doing separate function.

Use loops BR to compare characters in string

$A - A = 0$ (to determine 2 character is same)

IMPORTANT REGISTERS' VALUES

R3 = Pointer to first node of linked list

R0 = Pointer to first character of a string to be outputted

R2 = Pointer to first character of string of room number in current node

TO USE

Create a linked list with memory x3300 pointing to first node as in the experiment notice. Load the Inked list program then load this program submitted. Run the program. Follow direction in console and if room number is available in linked list, it will print out the name of faculties.

ALGORITHM

GET_INPUT

x = pointer to first character of string 1

y = pointer to first character of string 2

while (NODE != NULL):

 if (x != y):

 NEXT NODE

 else:

 x++

 y++

 if (mem[x] + mem[y] == 0): #means reach the end of both string and they are both same

 SUCCESS

 PRINT

 END

if (NULL == NULL):

 END