Write on algorithm on a stack i] Algorithm for add element at the end of stack. Procedure PUSH (A, S, top, ele) This procedure add element 'ele' at the end of the stack. 'A' A(1:5) is on array. 's' is maximum size of array. 'top' is the last element in stack. Declaration: -Global integer ACI:s), s, top it (top = = s), then print ("stack is Pull")
return
endif top - top+1 Actople ele END-POSH I Algorithm for pop/remove element from end of stack. Procedure POP (A. top) Description - This procedure pop element

Incomplete for :

- 1) Algorithm
- 2) Flow Chart
- 3) Programme Listing
- 4) Results
- 5) Comments

Description - This procedure papelement from the stack A(1:5), 'A' is an linear array. 'top' is the last element present in a stack' A'.

Declaration: (global integer A(1:5), top if (top=0), then

print("stack is empty")

return (NULL)

end; f elec-A[top] 10p (- top-1 return celestings no still I Algorithm for add element of 909-CM3 of 3] Algorithm for display all elements present in stack. Procedure Display (A, top) Description: - This procedure display all the elements corrently present in stack A(1:s). 'A' is the linear array with maximum size's' top' is the lost element currently present in stack ACI:s) Declaration: - Grobal integer A(1:5), top local integer i (" 11) 2i dore if (top = 0), then print ("stack is empty") and return; sia elsei) A for it 1 to top by +1 do print (ACO) repeat looks to (endit) 909 orobosor END Display or sid

I Write algorithm to perform PUSH operation

Procedure Push Ctop, data, neset, ele)

Descriptions.

This procedure add neco node in stack using linked list 1- 'top' is the pointer pointing to the Pirst node in the list which is initially set NULL. 'data' is a variable to hold the information to each node 'neut' is pointer pointing to the next node in the list its store the address of neut node to point it. The next pointer hold the null value in tast node of the list. 'AVAIL'is a list of Pree nodes cohich is set to null. il no Pree mode is available, 'ele' is element which is add to be.

Declaration:

Calobal pointer top, pointer neut integer data paramter integer ele. Algorithmi-

Algorithm 3-

if AVAIL = NULL, then
print ("stack is full")
else

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1) Algorithm

2) Flow Chart

Programme Listing

4) Results

5) Comments

I write a program to bist all the elements in stack Procedure List-ALL (top, data, next) Description : This procedure display all nodes from Stack organized using Linked list. where top' is a pointer pointing to Hirst node. in the list cohich is initially set to null. 'Data'is voriable part of node which shold the information 'neut' is a pointer pointing to next node in list by storing the address of next node which is eset to NULL of the lost node in the list. 'Avail' list of Free nodes. Declaration: - Global integer data, pointer top, pointer nort. Algorithms - if top_NULL, then elsEptre-top while ptr = NULL, do print (ptr->data) pt 1- ptr-ment Listing

END List All

NEW 2- DELETE CAVAIL) News-> data & ele NEW-> next 1- NULL NEW -> neart - top
top 2- New
endir
endir

ist. algorithm to perform pop operation in linked

Procedure POP Ctop, data, neut)

Description? - This procedure delete node from stack organized using linked list from the Pirst position. Top is a pointer pointing to the Prest node in the list which is initially set to NOLL. 'Data' is a variable part of node which hold the information. inentiss a pointer pointing to the next node in the list by storing the address of nort node in the which is set to bull of the last node in list. 'Avail' is a list of free nodes?

Declaration: - Calobal pointer top, pointer next parameter integer ele. Local pointer temp.

Algorithm 3- if top = NOLL, then

print ("stock is empty")

return (NOLL)

else electop > data trong votation got votatemps stiltop Start 2- top -> next ADO CAVATL) - Temp return (ele) mode endite ITAVA 91

END_POP