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Week 2 - Stack implementation:

write a program to simulate weaking of stack using an array with the following:

a) Push b) Pop c) Display.

Algorithm:

Step 1: [Method to implement Push]

Overflow check: if TOP = MAXSIZE -1

then print STACK OVERFLOW

Step 2: Increment Top value: TOP=TOP+1

Step 3: Insert item at top:

& S[TOP] = item

Step 4: Push method ends

Step 5: [rethod to implement Pop]

confere checko Underflow check: if TOP = -1

then print STACK UNDERFLOW

Step 6: Delete item and then print the item deleted:

item = S[TOP] print item

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Step 7: Decrement Top value: TOP = TOP-1 Step 8: Pop method unds Step 9: [muthod to implement Display] Underflow check: if TOP = -1 then print STACK IS EMPTY Step 10: for (i=0; i<=Top; i++) print S[i] Step 11: Display method ands Step 12: [main nuthod implementation]: Enter choice, 1. Push, 2. Pop, 3. Display of 4 Exit Step 13: Sneitch (choice) Care 1: call Repopular Rush method Physa input items to be inserted case 2: call Pop nuthod Case 3: Call Display method. Default: exit &