

Algorithm.

1. Set $top \rightarrow 3$
2. Declare an array a of size n
3. Define a fn ~~POPPUSH~~
 - 3.a. Check if $top \rightarrow n-1$
 - 3.a.1 display stack overflow
 - 3.b if top not equal to $n-1$
 - 3.b.1 increment top by 1
 - 3.b.2 set array of $top \rightarrow$ element accepted.
4. Define a fn POP
 - 4.a define a variable b .
 - 4.b check if $top \rightarrow -1$
 - 4.b.1 Display stack underflow.
 - 4.b.2.
 - 4.c if not $top \rightarrow -1$
 - 4.c.1 $b \rightarrow$ array (top)
 - 4.c.2 decrement top by 1
 - 4.c.3 Display b .
5. Define a fn Display.
 - 5.a Generate a loop from $i \rightarrow top$ to ~~if~~ $i \rightarrow 0$.
 - 5.a.1 Display ~~stack~~ $add(top)$
 - 5.a.2 decrement i by 1.