Stive



 Stiva este o lista liniara in care inserarile si stergerile din lista se pot face numai pe la un capat al listei, numit <u>varful stivei</u>.



Reprezentare (LIFO)



Notăm:

- •inserarea unui element *a* intr-o stiva *S*:
- $a \Rightarrow S$
- •stergerea unui element a dintr-o stiva S:

$$S \Rightarrow a$$
.

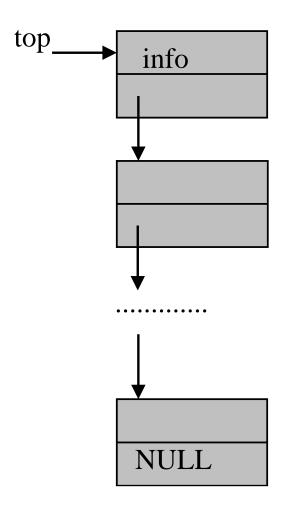
Alocare secventiala

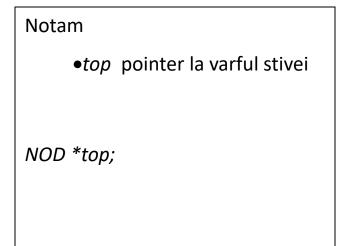
Vizualizare

https://www.cs.usfca.edu/~galles/visualization/StackArray.html

Alocare inlantuita

https://www.cs.usfca.edu/~galles/visualization/StackLL.html







inserarea unui nod nou

stergerea/accesarea unui nod

Aloca memorie pentru un nod nou. Returneaza p, un pointer la noul nod.

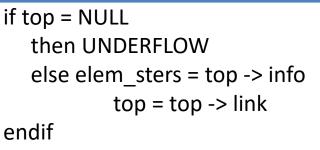
if
$$p \neq NULL$$
 then

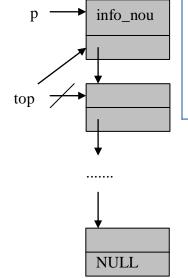
$$p \rightarrow link = top$$

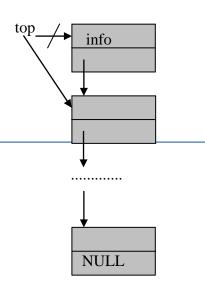
$$top = p$$

else OVERFLOW

endif







Vizualizare

 https://www.cs.usfca.edu/~galles/visualization/St ackArray.html

 https://www.cs.usfca.edu/~galles/visualization/St ackLL.html

https://www.cs.usfca.edu/~galles/visualization/Algorithms.html