COMPUTER SCIENCE AND DA

Data Structures through Python

Stack



Lecture No. 06



Topics to be covered



APPLICATIONS OF STACK



APPLICATIONS OF STACK



X: i*(j/k)~1~(m/n~(p*a)).

S * & N X X X X X X X

Y= ijk/2~mnpq1*1/1*



X: 3+(2*(4n3-1)/(5n2)+3)*6 $S \neq \emptyset \neq \emptyset \neq \emptyset \neq \emptyset \neq \emptyset \Rightarrow \emptyset$ Y=3243n1-*52n13+6*+ +,-

Os - push empty - push (- push Of - pop add so Y Push Os Infix to Prefix Conversion

proposed 2 had nonvery a right of X to the south of X to I start and 2 has no noinerday 1) Scan elements of X one at a time from right to left

(Note: (~~) ,) ~~ (2) Perform infra to postfix procedure step by step, except 1) 07 > 0s pop 07, add your or 2) 07 <= 0s put 0s 3) Reverse of Y == Z -> Resultant prefix expression

X: 0+b*(c/d)/e/(+*9/h)

S & + * + + + + *

Y=hgf*lendc/b*la+

Z2 + a/* b/clne/*fgh

Y=876~5432*1*11+-Z = -+1/*/*2345~678



THANK - YOU

