Divi - JE Comps 1) Koll 110 - 8953 1000 Deb 12 8 2020 Lucas Page No. Proclice Que 1) Quette 12) stock (3) @ pash () (b) pop () (4) (a) enqueue () (b) dequeue () 66.222 for (1=1. i=10. 1+4) 10 while (! is enpty)

{ paintf (', d', s. top 1); 10 10 10 10 10 10 ...-(Infinite loop) there is no popping on hence ! is empty = 0 hence infinite loop

(i) plefix notation: In this notate the operators, one weitter before the operate +A*BC. (1) Infix rotateon: In this potateon the operators over weetles in between the operates. (iii) Postfix notates: In this rotation the opening are wetlen after the openeds.

eg:- ABC*+

Page No. Date i= \$, i<-10. it) (i) god while (kis empty) popl peintf ("/d-", S. top! 8-2-11. Engly = 0 the loop breaks ons

Output (V) Perdenler(g) Quene underflow (2) deplee (g) -) Bobo (After enqueue) Queene -) Dobo (3) deploy (9) 3060 Belly (After enqueure 2) Queen Bobo Delly 4 display (q) > Bobo Billy Suzy (After enqueue 3) Quene - Bobo Belly Surg (5) digglay (q) - Billy Sury (After dequence)

quence - Belly Sury [] O display (q) -Belly Swey Avi (After enqueure 4) Guene - Belly Surg Are (7) Ligglay (q) > Suzy Ani (After Leguene 2).

UD Good 2 Slovel) (starting Good 11/12/13/14/15/16/14/18/19/20) emply Cose 2. (for i=o ishalfare) > (pashles, degre (2)

State

15 | 16 | 17 | 18 | 19 | 20 | JI6 17 18 19 20 while shoet is not empty) I (enque (& of popt) [16/17/18/19/20/15/14/13/12/11] cose 5 (for 1 = 0 is halfsize) - (enquerie 8, dequere 18) JIS/14/13/12/11/16/17/18/19/20/ engly

| Page No. Date |
|--|
| Cose 5 (for ti= 0, to horpsone) > (push 18, dequeur g)). Stock 11 16 17 18 19 20 12 13 14 15 |
| Cage 6 (while slock is not enply) (enqueue (gypops) (enque, degy). Greene. 11 16/12/17 13/18/14/19/15/20 glack enply |
| fund of: 11 16 12 17 13 18 14 19 15 20. Chan str [50]. gets (str). // tet str = " vair" int n = strten(str); // n=4. |
| for (= 0, i = n, i++) > push(& s, str[i]). |
| for (i=0, i(n, i+1)) str(i) = pop(Rs), str n i a x 100. printy ('1.3', Str). op:- n i a x 11 reverse of string. |

_

_

-