ICS: CLASSWORK EXERCISES

4 IN-FIX, PREFIX, & POSTFIX EXPRESSIONS

BEDMAS! c) A+B/(L-D+E)

2. Evaluate postfix expressions: (A=7, B=4, C=3, D=-2)

$$= (A+B) C/D^*$$

$$= \frac{(A+B)}{C} \cdot D$$

$$= AB(C+D)/4$$

$$= A\left(\frac{B}{(c+D)}\right)$$

$$= 7\left(\frac{4}{3-2}\right)$$

$$=\left(\frac{7+4}{3}\right)(-2)=-6$$

= 2

c) A+3/(C-D*E)

ICS: HOMEWORK EXERCISES

LO IN-FIX, PREFIX, & POSTFIX EXPRESSIONS

2. Change the following given expressions spec. Fied ınto expressions: c) in-fix: ((A+B) * (C+E)) IN-FIX: ((AX+(B*CY)) /(DE)) a) In-fix: (AX+(B*C)) POST: ((AX+(BC4*))/(DE)) POST: = (Ax + (BC+)) = (A x BCY* +) /(DE) PRE: ((+AB) + (+CE)) PRE: (AX+ (+CB)) = + + AB + CE Prs: ((Ax+(*BCy)) / (DE)) = +AX*CB = (+A x + BLY) /(DE) = / + AX * BCY DE e) Infix: ((H*(((A+((B+C)*D))*F)*G)*E))+J) d) in-fix: (AX* (BX* ((((Y+AY)+BY)+CX))) POST: ((H*(((A+(BC+)*D))*F)*G)*E))+J) post: (Ax*(Bx*(((CYAY+)+BY)+CX))) = ((H*(((A+(BC+D*))*F)*G)*E))+J) = (Ax* (Bx* ((CYAY+BY+) *CX))) =(A x * (BX* (CYAY+BY+CX*))) = (| H + (((ABC+D++F+)+6)+E))+J) - (A x * (B X CYAY + BY + CX * *)) = ((H *((AB(+D*+F* G*)*E))+J) = AXBXCYAY+BY+CX*** = ((H* (AB(+D*+F*G*E*))+J) Pre: (AX*(BX*(((+CY AY) + BY) * C X))) =(A x* (Bx* ((++cy ay by)*cx))) = HABC +D ++F+G+E++ J+ =(Ax* (Bx* (*++CYAYBYCX))) =(A X *(* BX* + + (Y AY BY CX)) Infix: ((H*(((A+((B+()*D))*F)*G)*E))+J)
PRE: ((H*(((A+((+B()*D))*F)*G)*E))+J) = + AX + BX + ++ CYAYBYCX =((H +((((A+(++BCD))+F)+G)+G)+F))+J) = ((H + ((((+A++B(D)+F)+G)+E))+J) = ((H + (((++A++B(DF)+G)+F))+J) = ((H + ((++ A++BCDFG) + F)) +J)