2001-2002

American Computer Science League

Contest #4

2001-2002	Classroom Division S	olutions
1. What Does This Progra LEN (B\$) = 100 LEN (MID\$(A\$,52,12)) = LEN (MID\$(B\$,26,13)) = LEN (C\$) = 12 + 13 = 25 LEN (D\$) = 13 LEN (E\$) = 100 + 25 + 1	= 12 = 13	1. 138
2. Prefix-Infix-Postfix A (B+D)/(C-E) A*(B+D)/(C-E) (ABD+*)/(CE-) = A * (B D +) / (C - E) =	2. ABD + * C E - /
	C) C = $((A + BC) - (A + C)) + C$ C. Substituting the given values gi	
4. Data Structures The tree is formed as a $13 = 2(1) + 4(2) + 3$	shown and has an internal path leng	h of 13. 4. 13
-	nmands in LIFO order (Last In – Fir der are B, C, A, F and E. The only	

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6. D
7. * A / + AB - C / AB
$8. = \mathbf{V} * * / 43 \pi \uparrow \mathbf{R}3$
9. D
10. 30