$X \in \text{dem} P = P(X) = 99$ $\langle VAR(X), \xi, \phi, P \rangle \forall \langle 99, \xi, \phi, P \rangle$ $\langle Set(X, 3), \xi, \phi, P \rangle \forall \langle 3, \xi, \phi, P' \xi \rangle \rightarrow 33 \rangle$ $\langle VAR(X), \xi, \phi, P \rangle \forall \langle 3, \xi, \phi, P' \rangle$ $\langle \text{begin}((\text{set} \times 3), X), \xi, \phi, P \rangle \forall \langle 3, \xi, \phi, P' \rangle$

Case 1: <LITERAL(0), &, 0, P>U<N, &, 0, P> V, =0 <IF(VARCX), VARCX), LITERAL(O)), &, O, D> VV, E, O, D> Juse 28 < VARCX), &, P, P>V< V, A, B, P> V, #0 < VAR(X), \(\xi\), \(\phi, \rho') \(\nu\) <iFCUARCOS, VARCOS, LITERALCOS), \(\int \, \p, \p>\V<\', \xi', \alpha', \alpha', \quad \quad \quad \p'\)</pre> In cases 1 & 2, V1 is the result of the expression <VAR(x), &, a, P>U<V2, &, a, P> Therefore V, = 1/2

α. X Edem D X Edem E. X Edem Φ (VAR(x), ξ, Φ, D) II (V, ξ (x) - 03, Φ, D)

b. X € dam P X € dam € X € dam €

(VAR(x), ξ, φ, D) (V,, ξ, φ, D' (x))

Col prefer Icon: like behavier as it does not prepagate globals; the variable is set within the current scope.

folse; for any expression,

<e, €, Φ, P> U <V, ξ'ξi+ → v3, Φ, P>

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fer(cijezjez) <e,, \$, \$, p> 1< < ,, \$, \$, \$, > __ (e2, \$', \$, P'>U < 12, \$", \$, P" > <e_y, &", 0, 1/> V <>y, &", 0, 17"> < e3, 5", 0, p" > V3, 5", 0, 12" > <for(0, e2, e3, e4), &", 6, p""> U < V3, &", 6, p""> Gor(C1, C2: C3 (C4), E, O, P) V < V3, E", O, P" < e, , \(\delta , \text{p, P} \) \(\cup \), \(\xi \), \(\delta , \text{p'} \) <e, &, o, p'74</2, &", o, p"7 V2=0

<fc(e,e,e,e,e,e,), \$, \$, P7. 1/</2, \xi", \$, P">