

[9-3] 2. ① r. g. u. t. p

p. g. u. t
② r. : g. p. u. t

p. g
③ r g. u

p g. u. r. t

3. ① $\langle S \rangle \uparrow S_1 \downarrow I_2 \rightarrow \langle A \rangle \uparrow S_2 \langle B \rangle \uparrow S_3 \downarrow I_1 @f_1 \uparrow X, Y \downarrow Z, W$

$\langle C \rangle \uparrow S_4 \downarrow I_3 @f_2 \uparrow Z, W, F \downarrow D, G \langle D \rangle \uparrow S_5 \downarrow I_4$

$X := S_2, Y := I_1, Z = X * Y, W := Y^2, I_2 := Z, I_3 := W.$

$D := Z * W, F := S_2, G = F^2, S_1 := G$

② $\langle S \rangle \uparrow S_1 \downarrow I_1 \rightarrow @f \downarrow A \uparrow B$

$A := I_1, B := \sin(A), S_1 := B$

③ $\langle S \rangle \uparrow S_1, S_2 \rightarrow \langle A \rangle \uparrow S_3 @f_1 \downarrow X \uparrow Y \langle B \rangle \downarrow I_1,$

$@f_2 \downarrow Z \uparrow D @JOHN \downarrow I_2, I_3 \langle C \rangle \downarrow I_4 @f_3 \downarrow Z \uparrow F$

$X := S_3, Y := 3 * X, I_1 := Y, Z := I_1, D := Z^2, I_2 := D, I_3 := I_2, I_4 := I_3$

$Z := I_4, F := I_4 + 2, S_1 := F.$