On the Subject of Swiftly Subduing Silly Slots

Sassy	Silly	Soggy	Sally	Simon	Sausage	Steven
1 Blue	1 Blue	1 Green	1 Red	1 Red	1 Red	1 Green
2 Red	2 Green	2 Blue	2 Blue	2 Green	2 Blue	2 Red
3 Green	3 Red	3 Red	3 Green	3 Blue	3 Green	3 Blue
A Cherry	A Coin	A Coin	A Grape	A Bomb	A Grape	A Cherry
S Grape	S Bomb	S Cherry	S Cherry	S Grape	S Bomb	S Bomb
D Bomb	D Grape	D Bomb	D Bomb	D Cherry	D Coin	D Coin
F Coin	F Cherry	F Grape	F Coin	F Coin	F Cherry	F Grape

Use the table on the left to convert the symbols to letters A-D and the colors to numbers 1-3.
Find the three colors (row), the first two symbols (columns) and the third symbol (inside the cell).
K = keep, P = pull; rest is a condition on keep.
n^3 = *n*th slot 2 stages ago was 3.
<D, <2F = previous stage had any D/2F.
«1D, «3F = any earlier stage had a 1D/3F.
& = logical and.

	AA	AS	AD	AF	SA	SS	SD	SF
111	A=«3F D=P K	A=K 1^3	P	A=K 1^3	A=K D=P 2^3	A=3^3 S=<2F&«3F <2F	A=P <2F	A=3^3 <2F
112	S=«1D D=P K	S=1^3&«1D D=P 1^3	P	S=1^3&«1D D=P 1^3	S=2^3&«1D D=P 2^3	S=«1D D=P K	S=«1D F=K P	S=«1D D=P K
113	D=P <D	1^3&<D	P	1^3&<D	D=P 2^3&<D	<D	<D	<D
121	A=K D=P 1^3	A=«1D 1^3&«1D	P	A=K 1^3	A=3^3 D=P K	A=3^3&«1D «1D	P	A=3^3 K
122	P	P	P	F=1^3 P	P	P	P	F=K P
123	D=P 1^3&<D	1^3&<D&«1D	P	1^3&<D	D=P <D	<D&«1D	P	<D
131	A=<D 1^3&<D	A=<D 1^3&<D	P	A=<D 1^3&<D	A=3^3&<D <D	A=3^3&<D <D	A=P <D	A=3^3&<D <D
132	S=1^3& <D&«1D D=P 1^3&<D	S=1^3& <D&«1D D=P 1^3&<D	P	S=1^3& <D&«1D D=P 1^3&<D	S=<D&«1D D=P <D	S=<D&«1D D=P <D	S= <D&«1D F=<D P	S=<D&«1D D=P <D
133	1^3	1^3	P	F=P 1^3	K	K	K	F=P K
211	A=K D=P 2^3	A=3^3 K	P	A=3^3 K	A=«1D D=P 2^3&«1D	A=3^3&«1D «1D	A=P «1D	A=3^3&«1D «1D
212	P	P	P	P	P	P	P	P
213	D=P 2^3&<D	<D	P	<D	D=P 2^3&<D&«1D	<D&«1D	<D&«1D	<D&«1D
221	P	P	P	P	P	P	P	P
222	A=«3F S=«1D D=P F=K	D=P «1D	P	S=«1D D=P K	D=P «1D	A=«1D F=<2F&«1D P	D= <2F&«1D P	A=«1D D=P <2F&«1D
223	P	P	P	P	P	P	P	P
231	A=3^3&<D <D	A=3^3&<D <D	P	A=3^3&<D <D	A=3^3& <D&«1D <D&«1D	A=3^3& <D&«1D <D&«1D	A=P <D&«1D	A=3^3& <D&«1D <D&«1D
232	P	P	P	P	P	P	P	P
233	K	K	P	F=P K	«1D	S=P «1D	«1D	F=P «1D
311	A=<D D=P 2^3&<D	A=3^3&<D <D	A=P <D	A=3^3&<D <D	A=<D D=P 2^3&<D	A=3^3&<D <D	A=P <D	A=3^3&<D <D
312	S=2^3& <D&«1D D=P 2^3&<D	S=<D&«1D D=P <D	S= <D&«1D F=<D P	S=<D&«1D D=P <D	S=2^3& <D&«1D D=P 2^3&<D	S=<D&«1D D=P <D	S= <D&«1D F=<D P	S=<D&«1D D=P <D
313	D=P 2^3	K	K	K	D=P 2^3	K	K	K
321	A=3^3&<D D=P <D	A=3^3& <D&«1D <D&«1D	P	A=3^3&<D <D	A=3^3&<D D=P <D	A=3^3& <D&«1D <D&«1D	P	A=3^3&<D <D
322	P	P	P	F=<D P	P	P	P	F=<D P
323	D=P K	«1D	P	K	D=P K	S=P «1D	P	K
331	A=3^3 K	A=3^3 K	A=P K	A=3^3 K	A=3^3 K	A=3^3 K	A=P K	A=3^3 K
332	S=«1D D=P K	S=«1D D=P K	S=«1D F=K P	S=«1D D=P K	S=«1D D=P K	S=P D=P K	S=«1D F=K P	S=«1D D=P K
333	A=«3F K	K	K	F=P K	K	A=K S=P <2F	A=K <2F	A=K F=P <2F

	DA	DS	DD	DF	FA	FS	FD	FF
111	P	A=3^3 <2F	A=P D=<2F&«3F <2F	A=3^3 <2F	A=K D=P 2^3	A=3^3 <2F	A=P <2F	A=3^3 F=<2F&«3F <2F
112	P	S=«1D D=P K	S=«1D F=K P	S=«1D D=P K	S=2^3&«1D D=P 2^3	S=«1D D=P K	S=«1D F=K P	S=«1D D=P K
113	P	<D	<D	<D	D=P 2^3&<D	<D	<D	<D
121	P	A=3^3&«1D «1D	P	A=3^3 K	A=3^3 D=P K	A=3^3&«1D «1D	P	A=3^3 K
122	P	P	P	F=K P	P	P	P	F=K P
123	P	<D&«1D	P	<D	D=P <D	<D&«1D	P	<D
131	A=3^3&<D <D	A=3^3&<D <D	A=P <D	A=3^3&<D <D	A=3^3&<D <D	A=3^3&<D <D	A=P <D	A=3^3&<D <D
132	S= <D&«1D D=P <D	S=<D&«1D D=P <D	S=<D&«1D F=<D P	S= <D&«1D D=P <D	S=<D&«1D D=P <D	S=<D&«1D D=P <D	S= <D&«1D F=<D P	S=<D&«1D D=P <D
133	K	K	K	F=P K	K	K	K	F=P K
211	P	P	P	P	A=K D=P 2^3	A=3^3 K	A=P K	A=3^3 K
212	P	P	P	P	F=2^3 P	F=K P	F=K P	F=K P
213	P	P	P	P	D=P 2^3&<D	<D	<D	<D
221	P	P	P	P	P	P	P	A=3^3 K
222	P	D=<2F&«1D P	A=P S=<2F&«1D D=<2F&«3F F=<2F	D=<2F P	S=«1D D=P K	A=«1D D=P <2F&«1D	D=<2F P	A=K S=<2F&«1D D=P F=<2F&«3F
223	P	P	P	P	P	P	P	<D
231	P	P	P	P	A=3^3&<D <D	A=3^3&<D <D	A=P <D	A=3^3&<D <D
232	P	P	P	P	F=<D P	F=<D P	F=<D P	F=<D P
233	P	P	P	P	K	K	K	F=P K
311	P	A=3^3&<D <D	A=P <D	A=3^3&<D <D	A=<D D=P 2^3&<D	A=3^3&<D <D	A=P <D	A=3^3&<D <D
312	P	S=<D&«1D D=P <D	S=<D&«1D F=<D P	S= <D&«1D D=P <D	S=2^3& <D&«1D D=P 2^3&<D	S=<D&«1D D=P <D	S= <D&«1D F=<D P	S=<D&«1D D=P <D
313	P	K	K	K	D=P F=P 2^3	F=P K	F=P K	F=P K
321	P	A=3^3& <D&«1D <D&«1D	P	A=3^3&<D <D	A=3^3&<D D=P <D	A=3^3& <D&«1D <D&«1D	P	A=3^3&<D <D
322	P	P	P	F=<D P	P	P	P	F=<D P
323	P	«1D	P	K	D=P F=P K	F=P «1D	P	F=P K
331	A=3^3 K	A=3^3 K	A=P K	A=3^3 K	A=3^3 K	A=3^3 K	A=P K	P
332	S=«1D D=P K	S=«1D D=P K	S=«1D F=K P	S=«1D D=P K	S=«1D D=P K	S=«1D D=P K	S=«1D F=K P	P
333	K	A=K <2F	A=K D=<2F&«3F <2F	A=K F=P <2F	F=P K	A=K F=P <2F	A=K F=P <2F	P