$$p_0^*$$
 p_1^* p_2^*
 a_0c_0 a_0c_1z $a_0c_2z^2$...
 a_1c_0z $a_1c_1z^2$ $a_1c_2z^3$...
 $a_2c_0z^2$ $a_2c_1z^3$ $a_2c_2z^4$...