

■リード・ソロモン符号の計算

◎誤り訂正レベル: レベル Q

◎入力文字: バイナリ・モード, “トラ技 Jr.”

$$\begin{aligned}
 & x^{13} + \alpha^{74} x^{12} + \alpha^{152} x^{11} + \alpha^{176} x^{10} + \alpha^{100} x^9 + \alpha^{86} x^8 + \alpha^{100} x^7 \\
 & + \alpha^{106} x^6 + \alpha^{104} x^5 + \alpha^{130} x^4 + \alpha^{218} x^3 + \alpha^{206} x^2 + \alpha^{140} x + \alpha^{78} \\
 & \frac{\alpha^6 x^{12} + \alpha^{72} x^{11} + \alpha^{246} x^{10} + \alpha^{73} x^9 + \alpha^{158} x^8 + \alpha^{222} x^7 + \alpha^{166} x^6 + \alpha^{105} x^5 + \alpha^{190} x^4 + \alpha^{222} x^3 + \alpha^{125}}{\alpha^6 x^{25} + \alpha^{17} x^{24} + \alpha^{249} x^{23} + \alpha^{78} x^{22} + \alpha^{201} x^{21} + \alpha^{17} x^{20} + \alpha^{42} x^{19} + \alpha^{148} x^{18} + \alpha^{205} x^{17} + \alpha^{101} x^{16} + \alpha^{233} x^{15} + \alpha^{122} x^{14} + \alpha^{100} x^{13}} \\
 & \frac{\alpha^6 x^{25} + \alpha^{80} x^{24} + \alpha^{158} x^{23} + \alpha^{182} x^{22} + \alpha^{106} x^{21} + \alpha^{92} x^{20} + \alpha^{103} x^{19} + \alpha^{112} x^{18} + \alpha^{110} x^{17} + \alpha^{136} x^{16} + \alpha^{224} x^{15} + \alpha^{212} x^{14} + \alpha^{146} x^{13} + \alpha^{84} x^{12}}{\alpha^7 x^{24} + \alpha^{112} x^{23} + \alpha^{105} x^{22} + \alpha^{27} x^{21} + \alpha^{216} x^{20} + \alpha^{112} x^{19} + \alpha^{36} x^{18} + \alpha^{31} x^{17} + \alpha^{133} x^{16} + \alpha^{213} x^{15} + \alpha^{184} x^{14} + \alpha^{237} x^{13} + \alpha^{84} x^{12}} \\
 & \frac{\alpha^7 x^{24} + \alpha^{146} x^{23} + \alpha^{224} x^{22} + \alpha^{248} x^{21} + \alpha^{172} x^{20} + \alpha^{153} x^{19} + \alpha^{172} x^{18} + \alpha^{178} x^{17} + \alpha^{176} x^{16} + \alpha^{202} x^{15} + \alpha^{35} x^{14} + \alpha^{23} x^{13} + \alpha^{212} x^{12} + \alpha^{150} x^{11}}{\alpha^{248} x^{23} + \alpha^3 x^{22} + \alpha^{128} x^{21} + \alpha^{132} x^{20} + \alpha^{248} x^{19} + \alpha^{70} x^{18} + \alpha^{84} x^{17} + \alpha^{254} x^{16} + \alpha^{192} x^{15} + \alpha^{223} x^{14} + \alpha^{133} x^{13} + \alpha^{224} x^{12} + \alpha^{130} x^{11}} \\
 & \frac{\alpha^{248} x^{23} + \alpha^{67} x^{22} + \alpha^{145} x^{21} + \alpha^{168} x^{20} + \alpha^{93} x^{19} + \alpha^{78} x^{18} + \alpha^{93} x^{17} + \alpha^{99} x^{16} + \alpha^{97} x^{15} + \alpha^{123} x^{14} + \alpha^{211} x^{13} + \alpha^{199} x^{12} + \alpha^{133} x^{11} + \alpha^{71} x^{10}}{\alpha^{73} x^{22} + \alpha^{19} x^{21} + \alpha^{56} x^{20} + \alpha^{7} x^{19} + \alpha^{190} x^{18} + \alpha^{204} x^{17} + \alpha^3 x^{16} + \alpha^{18} x^{15} + \alpha^{127} x^{14} + \alpha^{73} x^{13} + \alpha^{200} x^{12} + \alpha^{201} x^{11} + \alpha^{71} x^{10}} \\
 & \frac{\alpha^{73} x^{22} + \alpha^{147} x^{21} + \alpha^{225} x^{20} + \alpha^{249} x^{19} + \alpha^{173} x^{18} + \alpha^{159} x^{17} + \alpha^{173} x^{16} + \alpha^{178} x^{15} + \alpha^{177} x^{14} + \alpha^{203} x^{13} + \alpha^{36} x^{12} + \alpha^{24} x^{11} + \alpha^{213} x^{10} + \alpha^{151} x^9}{\alpha^{153} x^{21} + \alpha^{212} x^{20} + \alpha^{93} x^{19} + \alpha^{241} x^{18} + \alpha^{150} x^{17} + \alpha^{88} x^{16} + \alpha^{126} x^{15} + \alpha^{123} x^{14} + \alpha^4 x^{13} + \alpha^{154} x^{12} + \alpha^{153} x^{11} + \alpha^{34} x^{10} + \alpha^{151} x^9} \\
 & \frac{\alpha^{153} x^{21} + \alpha^{233} x^{20} + \alpha^{55} x^{19} + \alpha^{80} x^{18} + \alpha^4 x^{17} + \alpha^{245} x^{16} + \alpha^4 x^{15} + \alpha^{10} x^{14} + \alpha^8 x^{13} + \alpha^{34} x^{12} + \alpha^{122} x^{11} + \alpha^{110} x^{10} + \alpha^{44} x^9 + \alpha^{237} x^8}{\alpha^{222} x^{20} + \alpha^{235} x^{19} + \alpha^{188} x^{18} + \alpha^{65} x^{17} + \alpha^{123} x^{16} + \alpha^{121} x^{15} + \alpha^{163} x^{14} + \alpha^{104} x^{13} + \alpha^{43} x^{12} + \alpha^{92} x^{11} + \alpha^{147} x^{10} + \alpha^{102} x^9 + \alpha^{237} x^8} \\
 & \frac{\alpha^{222} x^{20} + \alpha^{41} x^{19} + \alpha^{119} x^{18} + \alpha^{143} x^{17} + \alpha^{67} x^{16} + \alpha^{53} x^{15} + \alpha^{67} x^{14} + \alpha^{73} x^{13} + \alpha^{71} x^{12} + \alpha^{97} x^{11} + \alpha^{155} x^{10} + \alpha^{173} x^9 + \alpha^{107} x^8 + \alpha^{45} x^7}{\alpha^{166} x^{19} + \alpha^{249} x^{18} + \alpha^{22} x^{17} + \alpha^{157} x^{16} + \alpha^{70} x^{15} + \alpha^{63} x^{14} + \alpha^{118} x^{13} + \alpha^{236} x^{12} + \alpha^{200} x^{11} + \alpha^{76} x^{10} + \alpha^{211} x^9 + \alpha^{176} x^8 + \alpha^{45} x^7} \\
 & \frac{\alpha^{166} x^{19} + \alpha^{240} x^{18} + \alpha^{63} x^{17} + \alpha^{87} x^{16} + \alpha^{11} x^{15} + \alpha^{222} x^{14} + \alpha^{11} x^{13} + \alpha^{17} x^{12} + \alpha^{15} x^{11} + \alpha^{41} x^{10} + \alpha^{123} x^9 + \alpha^{117} x^8 + \alpha^{51} x^7 + \alpha^{244} x^6}{\alpha^{105} x^{18} + \alpha^{173} x^{17} + \alpha^{151} x^{16} + \alpha^{93} x^{15} + \alpha^{27} x^{14} + \alpha^{69} x^{13} + \alpha^{206} x^{12} + \alpha^{59} x^{11} + \alpha^{73} x^{10} + \alpha^{198} x^9 + \alpha^{193} x^8 + \alpha^{236} x^7 + \alpha^{244} x^6} \\
 & \frac{\alpha^{105} x^{18} + \alpha^{178} x^{17} + \alpha^2 x^{16} + \alpha^{26} x^{15} + \alpha^{26} x^{14} + \alpha^{191} x^{13} + \alpha^{205} x^{12} + \alpha^{211} x^{11} + \alpha^{203} x^{10} + \alpha^{255} x^9 + \alpha^{68} x^8 + \alpha^{55} x^7 + \alpha^{245} x^6 + \alpha^{183} x^5}{\alpha^{190} x^{16} + \alpha^{242} x^{15} + \alpha^{178} x^{14} + \alpha^{186} x^{13} + \alpha^{231} x^{12} + \alpha^{31} x^{11} + \alpha^{107} x^{10} + \alpha^{34} x^9 + \alpha^{124} x^8 + \alpha^{180} x^7 + \alpha^{14} x^6 + \alpha^{183} x^5} \\
 & \frac{\alpha^{190} x^{16} + \alpha^9 x^{15} + \alpha^{87} x^{14} + \alpha^{111} x^{13} + \alpha^{35} x^{12} + \alpha^{21} x^{11} + \alpha^{35} x^{10} + \alpha^{41} x^9 + \alpha^{39} x^8 + \alpha^{65} x^7 + \alpha^{153} x^6 + \alpha^{141} x^5 + \alpha^{75} x^4 + \alpha^{13} x^3}{\alpha^{222} x^{15} + \alpha^{41} x^{14} + \alpha^{55} x^{13} + \alpha^{107} x^{12} + \alpha^{141} x^{11} + \alpha^{230} x^{10} + \alpha^{146} x^9 + \alpha^{208} x^8 + \alpha^{53} x^7 + \alpha^{112} x^6 + \alpha^{161} x^5 + \alpha^{75} x^4 + \alpha^{13} x^3} \\
 & \frac{\alpha^{222} x^{15} + \alpha^{41} x^{14} + \alpha^{119} x^{13} + \alpha^{143} x^{12} + \alpha^{67} x^{11} + \alpha^{53} x^{10} + \alpha^{67} x^9 + \alpha^{73} x^8 + \alpha^{71} x^7 + \alpha^{97} x^6 + \alpha^{185} x^5 + \alpha^{173} x^4 + \alpha^{107} x^3 + \alpha^{45} x^2}{\alpha^{125} x^{13} + \alpha^{77} x^{12} + \alpha^{170} x^{11} + \alpha^{187} x^{10} + \alpha^{241} x^9 + \alpha^{107} x^8 + \alpha^{39} x^7 + \alpha^{130} x^6 + \alpha^{180} x^5 + \alpha^{214} x^4 + \alpha^{215} x^3 + \alpha^{45} x^2} \\
 & \frac{\alpha^{125} x^{13} + \alpha^{189} x^{12} + \alpha^{22} x^{11} + \alpha^{46} x^{10} + \alpha^{225} x^9 + \alpha^{211} x^8 + \alpha^{225} x^7 + \alpha^{231} x^6 + \alpha^{223} x^5 + \alpha^0 x^4 + \alpha^{83} x^3 + \alpha^{75} x^2 + \alpha^{10} x + \alpha^{203}}{\alpha^{194} x^{12} + \alpha^{228} x^{11} + \alpha^{93} x^{10} + \alpha^{115} x^9 + \alpha^{134} x^8 + \alpha^{242} x^7 + \alpha^{177} x^6 + \alpha^{35} x^5 + \alpha^{116} x^4 + \alpha^{100} x^3 + \alpha^{90} x^2 + \alpha^{10} x + \alpha^{203}}
 \end{aligned}$$