

1 Irreducible Polynomials

Table 1: Irreducible Polynomials for $GF(2^2)$

$V^2 + V + 1$

Table 2: Irreducible Polynomials for $GF(2^4)/GF(2^2)$

$W^2 + W + v$
$W^2 + W + v + 1$

Table 3: Irreducible Polynomials for $GF(2^8)/GF(2^4)/GF(2^2)$

$X^2 + X + (v + 1) * w + v$
$X^2 + X + v * w$
$X^2 + X + v * w + v + 1$
$X^2 + X + v * w + v$
$X^2 + X + (v + 1) * w$
$X^2 + X + (v + 1) * w + 1$
$X^2 + X + v * w + 1$
$X^2 + X + (v + 1) * w + v + 1$

Table 4: Irreducible Polynomials for $GF(2^{16})/GF(2^8)/GF(2^4)/GF(2^2)$

$Y^2 + Y + (v * w + v) * x + 1$
$Y^2 + Y + ((v + 1) * w + v) * x + (v + 1) * w$
$Y^2 + Y + ((v + 1) * w + v) * x + v * w + 1$
$Y^2 + Y + (v * w + 1) * x + (v + 1) * w + v + 1$
$Y^2 + Y + v * w * x + v * w$
$Y^2 + Y + v * w * x + 1$
$Y^2 + Y + v * w * x + w + v$
$Y^2 + Y + ((v + 1) * w + v) * x + v * w$
$Y^2 + Y + (v + 1) * w * x + w + v$
$Y^2 + Y + ((v + 1) * w + v) * x + w$
$Y^2 + Y + ((v + 1) * w + 1) * x + (v + 1) * w$
$Y^2 + Y + v * w * x + v * w + 1$
$Y^2 + Y + ((v + 1) * w + 1) * x$
$Y^2 + Y + (v * w + 1) * x + w + 1$
$Y^2 + Y + ((v + 1) * w + 1) * x + w$
$Y^2 + Y + v * w * x + w + v + 1$
$Y^2 + Y + (v * w + (v + 1)) * x + 1$
$Y^2 + Y + (v * w + (v + 1)) * x + w + v$
$Y^2 + Y + ((v + 1) * w + (v + 1)) * x + v * w + 1$
$Y^2 + Y + ((v + 1) * w + (v + 1)) * x$
$Y^2 + Y + (v * w + (v + 1)) * x + v + 1$
$Y^2 + Y + ((v + 1) * w + (v + 1)) * x + (v + 1) * w + v$

$$\begin{aligned}
& Y^2 + Y + v * w * x + (v + 1) * w \\
& Y^2 + Y + (v * w + v) * x + w + v \\
& Y^2 + Y + (v * w + v) * x + w + 1 \\
& Y^2 + Y + (v * w + (v + 1)) * x + v \\
& Y^2 + Y + v * w * x + (v + 1) * w + v \\
& Y^2 + Y + ((v + 1) * w + 1) * x + (v + 1) * w + 1 \\
& Y^2 + Y + ((v + 1) * w + 1) * x + v * w \\
& Y^2 + Y + ((v + 1) * w + 1) * x + w + v + 1 \\
& Y^2 + Y + (v * w + v) * x + (v + 1) * w + 1 \\
& Y^2 + Y + (v + 1) * w * x + w + 1 \\
& Y^2 + Y + (v + 1) * w * x + v * w \\
& Y^2 + Y + v * w * x + v * w + v + 1 \\
& Y^2 + Y + (v * w + v) * x + v * w + v + 1 \\
& Y^2 + Y + ((v + 1) * w + v) * x + w + v \\
& Y^2 + Y + ((v + 1) * w + (v + 1)) * x + (v + 1) * w + v + 1 \\
& Y^2 + Y + ((v + 1) * w + 1) * x + w + 1 \\
& Y^2 + Y + ((v + 1) * w + (v + 1)) * x + w + v + 1 \\
& Y^2 + Y + ((v + 1) * w + v) * x \\
& Y^2 + Y + ((v + 1) * w + (v + 1)) * x + v + 1 \\
& Y^2 + Y + (v + 1) * w * x + (v + 1) * w + v + 1 \\
& Y^2 + Y + ((v + 1) * w + v) * x + v * w + v + 1 \\
& Y^2 + Y + ((v + 1) * w + 1) * x + (v + 1) * w + v + 1 \\
& Y^2 + Y + (v * w + 1) * x + v * w \\
& Y^2 + Y + (v * w + 1) * x + w + v + 1 \\
& Y^2 + Y + (v + 1) * w * x + v * w + v \\
& Y^2 + Y + ((v + 1) * w + (v + 1)) * x + v * w \\
& Y^2 + Y + (v * w + 1) * x + w \\
& Y^2 + Y + v * w * x + (v + 1) * w + 1 \\
& Y^2 + Y + ((v + 1) * w + 1) * x + w + v \\
& Y^2 + Y + ((v + 1) * w + (v + 1)) * x + w \\
& Y^2 + Y + (v * w + 1) * x + (v + 1) * w \\
& Y^2 + Y + (v * w + (v + 1)) * x + v * w \\
& Y^2 + Y + ((v + 1) * w + 1) * x + v * w + v \\
& Y^2 + Y + ((v + 1) * w + v) * x + (v + 1) * w + v \\
& Y^2 + Y + ((v + 1) * w + v) * x + (v + 1) * w + 1 \\
& Y^2 + Y + (v * w + (v + 1)) * x \\
& Y^2 + Y + ((v + 1) * w + v) * x + (v + 1) * w + v + 1 \\
& Y^2 + Y + (v * w + (v + 1)) * x + (v + 1) * w \\
& Y^2 + Y + ((v + 1) * w + (v + 1)) * x + w + 1 \\
& Y^2 + Y + ((v + 1) * w + 1) * x + v * w + 1 \\
& Y^2 + Y + (v * w + v) * x + w + v + 1 \\
& Y^2 + Y + ((v + 1) * w + (v + 1)) * x + (v + 1) * w \\
& Y^2 + Y + ((v + 1) * w + v) * x + v + 1 \\
& Y^2 + Y + (v * w + v) * x \\
& Y^2 + Y + (v * w + v) * x + v * w + 1 \\
& Y^2 + Y + ((v + 1) * w + v) * x + v \\
& Y^2 + Y + ((v + 1) * w + (v + 1)) * x + 1 \\
& Y^2 + Y + (v + 1) * w * x + v + 1 \\
& Y^2 + Y + (v * w + (v + 1)) * x + v * w + v + 1 \\
& Y^2 + Y + (v * w + (v + 1)) * x + w \\
& Y^2 + Y + (v + 1) * w * x \\
& Y^2 + Y + (v * w + (v + 1)) * x + (v + 1) * w + v \\
& Y^2 + Y + ((v + 1) * w + 1) * x + (v + 1) * w + v
\end{aligned}$$

$$\begin{aligned}
& Y^2 + Y + (v + 1) * w * x + 1 \\
& Y^2 + Y + ((v + 1) * w + v) * x + w + v + 1 \\
& Y^2 + Y + v * w * x + (v + 1) * w + v + 1 \\
& Y^2 + Y + v * w * x + w \\
& Y^2 + Y + (v * w + 1) * x + (v + 1) * w + 1 \\
& Y^2 + Y + ((v + 1) * w + v) * x + 1 \\
& Y^2 + Y + (v * w + v) * x + v * w + v \\
& Y^2 + Y + (v * w + (v + 1)) * x + (v + 1) * w + v + 1 \\
& Y^2 + Y + (v * w + v) * x + (v + 1) * w + v \\
& Y^2 + Y + (v * w + 1) * x \\
& Y^2 + Y + (v * w + v) * x + v \\
& Y^2 + Y + v * w * x + v * w + v \\
& Y^2 + Y + ((v + 1) * w + (v + 1)) * x + v \\
& Y^2 + Y + (v * w + 1) * x + w + v \\
& Y^2 + Y + (v * w + (v + 1)) * x + v * w + v \\
& Y^2 + Y + ((v + 1) * w + v) * x + w + 1 \\
& Y^2 + Y + v * w * x + w + 1 \\
& Y^2 + Y + (v + 1) * w * x + (v + 1) * w \\
& Y^2 + Y + (v * w + v) * x + w \\
& Y^2 + Y + (v + 1) * w * x + v \\
& Y^2 + Y + (v + 1) * w * x + v * w + v + 1 \\
& Y^2 + Y + (v * w + (v + 1)) * x + (v + 1) * w + 1 \\
& Y^2 + Y + (v * w + v) * x + (v + 1) * w \\
& Y^2 + Y + (v * w + (v + 1)) * x + w + 1 \\
& Y^2 + Y + (v * w + 1) * x + v * w + 1 \\
& Y^2 + Y + (v + 1) * w * x + (v + 1) * w + v \\
& Y^2 + Y + (v * w + 1) * x + v * w + v + 1 \\
& Y^2 + Y + (v * w + 1) * x + v * w + v \\
& Y^2 + Y + ((v + 1) * w + v) * x + v * w + v \\
& Y^2 + Y + (v * w + v) * x + (v + 1) * w + v + 1 \\
& Y^2 + Y + (v + 1) * w * x + v * w + 1 \\
& Y^2 + Y + ((v + 1) * w + 1) * x + v \\
& Y^2 + Y + ((v + 1) * w + 1) * x + v * w + v + 1 \\
& Y^2 + Y + (v * w + (v + 1)) * x + w + v + 1 \\
& Y^2 + Y + (v * w + v) * x + v * w \\
& Y^2 + Y + (v * w + 1) * x + v \\
& Y^2 + Y + ((v + 1) * w + 1) * x + 1 \\
& Y^2 + Y + (v + 1) * w * x + w \\
& Y^2 + Y + (v * w + 1) * x + 1 \\
& Y^2 + Y + ((v + 1) * w + (v + 1)) * x + v * w + v + 1 \\
& Y^2 + Y + ((v + 1) * w + (v + 1)) * x + v * w + v \\
& Y^2 + Y + (v * w + v) * x + v + 1 \\
& Y^2 + Y + ((v + 1) * w + 1) * x + v + 1 \\
& Y^2 + Y + v * w * x + v \\
& Y^2 + Y + (v + 1) * w * x + w + v + 1 \\
& Y^2 + Y + v * w * x \\
& Y^2 + Y + ((v + 1) * w + (v + 1)) * x + w + v \\
& Y^2 + Y + (v * w + (v + 1)) * x + v * w + 1 \\
& Y^2 + Y + v * w * x + v + 1 \\
& Y^2 + Y + (v * w + 1) * x + (v + 1) * w + v \\
& Y^2 + Y + (v + 1) * w * x + (v + 1) * w + 1 \\
& Y^2 + Y + ((v + 1) * w + (v + 1)) * x + (v + 1) * w + 1
\end{aligned}$$

$$Y^2 + Y + (v * w + 1) * x + v + 1$$

Table 5: All Degree 16 Irreducible Polynomials for $GF(2^{16})$

$V^{16} + V^5 + V^3 + V + 1$
$V^{16} + V^5 + V^3 + V^2 + 1$
$V^{16} + V^5 + V^4 + V^3 + 1$
$V^{16} + V^5 + V^4 + V^3 + V^2 + V + 1$
$V^{16} + V^6 + V^2 + V + 1$
$V^{16} + V^6 + V^4 + V + 1$
$V^{16} + V^7 + V^3 + V^2 + 1$
$V^{16} + V^7 + V^5 + V^4 + V^3 + V^2 + 1$
$V^{16} + V^7 + V^6 + V^4 + V^2 + V + 1$
$V^{16} + V^7 + V^6 + V^5 + V^4 + V^2 + 1$
$V^{16} + V^8 + V^5 + V^3 + 1$
$V^{16} + V^8 + V^5 + V^3 + V^2 + V + 1$
$V^{16} + V^8 + V^5 + V^4 + V^3 + V + 1$
$V^{16} + V^8 + V^5 + V^4 + V^3 + V^2 + 1$
$V^{16} + V^8 + V^6 + V^3 + V^2 + V + 1$
$V^{16} + V^8 + V^6 + V^4 + V^3 + V^2 + 1$
$V^{16} + V^8 + V^6 + V^5 + V^4 + V + 1$
$V^{16} + V^8 + V^6 + V^5 + V^4 + V^2 + 1$
$V^{16} + V^8 + V^7 + V^3 + V^2 + V + 1$
$V^{16} + V^8 + V^7 + V^4 + V^2 + V + 1$
$V^{16} + V^8 + V^7 + V^5 + 1$
$V^{16} + V^8 + V^7 + V^5 + V^3 + V^2 + 1$
$V^{16} + V^8 + V^7 + V^5 + V^4 + V^3 + V^2 + V + 1$
$V^{16} + V^8 + V^7 + V^6 + V^2 + V + 1$
$V^{16} + V^8 + V^7 + V^6 + V^3 + V^2 + 1$
$V^{16} + V^8 + V^7 + V^6 + V^4 + V^2 + 1$
$V^{16} + V^8 + V^7 + V^6 + V^5 + V^3 + 1$
$V^{16} + V^8 + V^7 + V^6 + V^5 + V^4 + V^2 + V + 1$
$V^{16} + V^9 + V^4 + V^2 + 1$
$V^{16} + V^9 + V^4 + V^3 + 1$
$V^{16} + V^9 + V^5 + V^2 + 1$
$V^{16} + V^9 + V^5 + V^3 + V^2 + V + 1$
$V^{16} + V^9 + V^6 + V^4 + V^3 + V + 1$
$V^{16} + V^9 + V^6 + V^4 + V^3 + V^2 + 1$
$V^{16} + V^9 + V^6 + V^5 + V^3 + V + 1$
$V^{16} + V^9 + V^6 + V^5 + V^3 + V^2 + 1$
$V^{16} + V^9 + V^6 + V^5 + V^4 + V^2 + 1$
$V^{16} + V^9 + V^7 + V^2 + 1$
$V^{16} + V^9 + V^7 + V^4 + 1$
$V^{16} + V^9 + V^7 + V^5 + 1$
$V^{16} + V^9 + V^7 + V^5 + V^4 + V + 1$
$V^{16} + V^9 + V^7 + V^6 + V^3 + V^2 + 1$
$V^{16} + V^9 + V^7 + V^6 + V^4 + V + 1$
$V^{16} + V^9 + V^7 + V^6 + V^5 + V^2 + 1$
$V^{16} + V^9 + V^7 + V^6 + V^5 + V^4 + V^2 + V + 1$
$V^{16} + V^9 + V^7 + V^6 + V^5 + V^4 + V^3 + V + 1$
$V^{16} + V^9 + V^8 + V^4 + V^2 + V + 1$

$$\begin{aligned}
& V^{16} + V^9 + V^8 + V^4 + V^3 + V^2 + 1 \\
& V^{16} + V^9 + V^8 + V^5 + V^4 + V^2 + 1 \\
& V^{16} + V^9 + V^8 + V^5 + V^4 + V^3 + 1 \\
& V^{16} + V^9 + V^8 + V^6 + V^3 + V + 1 \\
& V^{16} + V^9 + V^8 + V^6 + V^3 + V^2 + 1 \\
& V^{16} + V^9 + V^8 + V^6 + V^5 + V^3 + 1 \\
& V^{16} + V^9 + V^8 + V^6 + V^5 + V^3 + V^2 + V + 1 \\
& V^{16} + V^9 + V^8 + V^6 + V^5 + V^4 + 1 \\
& V^{16} + V^9 + V^8 + V^7 + V^2 + V + 1 \\
& V^{16} + V^9 + V^8 + V^7 + V^3 + V^2 + 1 \\
& V^{16} + V^9 + V^8 + V^7 + V^4 + V^3 + V^2 + V + 1 \\
& V^{16} + V^9 + V^8 + V^7 + V^5 + V + 1 \\
& V^{16} + V^9 + V^8 + V^7 + V^5 + V^4 + V^3 + V + 1 \\
& V^{16} + V^9 + V^8 + V^7 + V^6 + V^3 + V^2 + V + 1 \\
& V^{16} + V^9 + V^8 + V^7 + V^6 + V^4 + V^3 + V^2 + 1 \\
& V^{16} + V^9 + V^8 + V^7 + V^6 + V^5 + V^3 + V^2 + 1 \\
& V^{16} + V^9 + V^8 + V^7 + V^6 + V^5 + V^4 + V^3 + 1 \\
& V^{16} + V^{10} + V^3 + V + 1 \\
& V^{16} + V^{10} + V^5 + V^2 + 1 \\
& V^{16} + V^{10} + V^5 + V^3 + 1 \\
& V^{16} + V^{10} + V^6 + V^4 + V^2 + V + 1 \\
& V^{16} + V^{10} + V^6 + V^5 + 1 \\
& V^{16} + V^{10} + V^6 + V^5 + V^2 + V + 1 \\
& V^{16} + V^{10} + V^6 + V^5 + V^3 + V^2 + 1 \\
& V^{16} + V^{10} + V^7 + V + 1 \\
& V^{16} + V^{10} + V^7 + V^3 + 1 \\
& V^{16} + V^{10} + V^7 + V^4 + 1 \\
& V^{16} + V^{10} + V^7 + V^5 + V^2 + V + 1 \\
& V^{16} + V^{10} + V^7 + V^5 + V^3 + V^2 + 1 \\
& V^{16} + V^{10} + V^7 + V^5 + V^4 + V^2 + 1 \\
& V^{16} + V^{10} + V^7 + V^5 + V^4 + V^3 + V^2 + V + 1 \\
& V^{16} + V^{10} + V^7 + V^6 + 1 \\
& V^{16} + V^{10} + V^7 + V^6 + V^5 + V^4 + V^3 + V^2 + 1 \\
& V^{16} + V^{10} + V^8 + V^3 + 1 \\
& V^{16} + V^{10} + V^8 + V^5 + V^4 + V + 1 \\
& V^{16} + V^{10} + V^8 + V^5 + V^4 + V^3 + 1 \\
& V^{16} + V^{10} + V^8 + V^6 + V^2 + V + 1 \\
& V^{16} + V^{10} + V^8 + V^6 + V^5 + V + 1 \\
& V^{16} + V^{10} + V^8 + V^6 + V^5 + V^2 + 1 \\
& V^{16} + V^{10} + V^8 + V^6 + V^5 + V^3 + 1 \\
& V^{16} + V^{10} + V^8 + V^7 + V^2 + V + 1 \\
& V^{16} + V^{10} + V^8 + V^7 + V^5 + V^3 + V^2 + V + 1 \\
& V^{16} + V^{10} + V^8 + V^7 + V^6 + V + 1 \\
& V^{16} + V^{10} + V^8 + V^7 + V^6 + V^3 + V^2 + V + 1 \\
& V^{16} + V^{10} + V^8 + V^7 + V^6 + V^4 + 1 \\
& V^{16} + V^{10} + V^8 + V^7 + V^6 + V^4 + V^3 + V^2 + 1 \\
& V^{16} + V^{10} + V^8 + V^7 + V^6 + V^5 + V^3 + V + 1 \\
& V^{16} + V^{10} + V^8 + V^7 + V^6 + V^5 + V^4 + V^2 + 1 \\
& V^{16} + V^{10} + V^8 + V^7 + V^6 + V^5 + V^4 + V^3 + 1 \\
& V^{16} + V^{10} + V^9 + V^6 + 1 \\
& V^{16} + V^{10} + V^9 + V^6 + V^3 + V + 1 \\
& V^{16} + V^{10} + V^9 + V^6 + V^4 + V + 1 \\
& V^{16} + V^{10} + V^9 + V^6 + V^4 + V^3 + V^2 + V + 1
\end{aligned}$$

$$\begin{aligned}
& V^{16} + V^{10} + V^9 + V^6 + V^5 + V^4 + V^3 + V + 1 \\
& V^{16} + V^{10} + V^9 + V^6 + V^5 + V^4 + V^3 + V^2 + 1 \\
& V^{16} + V^{10} + V^9 + V^7 + V^2 + V + 1 \\
& V^{16} + V^{10} + V^9 + V^7 + V^3 + V + 1 \\
& V^{16} + V^{10} + V^9 + V^7 + V^5 + V + 1 \\
& V^{16} + V^{10} + V^9 + V^7 + V^5 + V^3 + V^2 + V + 1 \\
& V^{16} + V^{10} + V^9 + V^7 + V^6 + V + 1 \\
& V^{16} + V^{10} + V^9 + V^7 + V^6 + V^3 + 1 \\
& V^{16} + V^{10} + V^9 + V^7 + V^6 + V^5 + V^4 + V^2 + 1 \\
& V^{16} + V^{10} + V^9 + V^7 + V^6 + V^5 + V^4 + V^3 + V^2 + V + 1 \\
& V^{16} + V^{10} + V^9 + V^8 + V^6 + V^5 + V^3 + V + 1 \\
& V^{16} + V^{10} + V^9 + V^8 + V^6 + V^5 + V^3 + V^2 + 1 \\
& V^{16} + V^{10} + V^9 + V^8 + V^6 + V^5 + V^4 + V^3 + 1 \\
& V^{16} + V^{10} + V^9 + V^8 + V^6 + V^5 + V^4 + V^3 + V^2 + V + 1 \\
& V^{16} + V^{10} + V^9 + V^8 + V^7 + V + 1 \\
& V^{16} + V^{10} + V^9 + V^8 + V^7 + V^3 + V^2 + V + 1 \\
& V^{16} + V^{10} + V^9 + V^8 + V^7 + V^4 + V^2 + V + 1 \\
& V^{16} + V^{10} + V^9 + V^8 + V^7 + V^6 + V^5 + V^3 + V^2 + V + 1 \\
& V^{16} + V^{10} + V^9 + V^8 + V^7 + V^6 + V^5 + V^4 + 1 \\
& V^{16} + V^{10} + V^9 + V^8 + V^7 + V^6 + V^5 + V^4 + V^3 + V + 1 \\
& V^{16} + V^{11} + V^2 + V + 1 \\
& V^{16} + V^{11} + V^3 + V + 1 \\
& V^{16} + V^{11} + V^3 + V^2 + 1 \\
& V^{16} + V^{11} + V^4 + V^2 + 1 \\
& V^{16} + V^{11} + V^5 + V^4 + V^3 + V + 1 \\
& V^{16} + V^{11} + V^6 + V^5 + 1 \\
& V^{16} + V^{11} + V^6 + V^5 + V^4 + V^3 + 1 \\
& V^{16} + V^{11} + V^7 + V^4 + V^2 + V + 1 \\
& V^{16} + V^{11} + V^7 + V^4 + V^3 + V^2 + 1 \\
& V^{16} + V^{11} + V^7 + V^5 + V^3 + V + 1 \\
& V^{16} + V^{11} + V^7 + V^5 + V^4 + V^3 + V^2 + V + 1 \\
& V^{16} + V^{11} + V^7 + V^6 + V^4 + V^2 + 1 \\
& V^{16} + V^{11} + V^7 + V^6 + V^4 + V^3 + V^2 + V + 1 \\
& V^{16} + V^{11} + V^7 + V^6 + V^5 + V + 1 \\
& V^{16} + V^{11} + V^7 + V^6 + V^5 + V^3 + 1 \\
& V^{16} + V^{11} + V^7 + V^6 + V^5 + V^4 + 1 \\
& V^{16} + V^{11} + V^7 + V^6 + V^5 + V^4 + V^3 + V + 1 \\
& V^{16} + V^{11} + V^8 + V^5 + V^4 + V^3 + 1 \\
& V^{16} + V^{11} + V^8 + V^6 + V^4 + V^3 + 1 \\
& V^{16} + V^{11} + V^8 + V^6 + V^5 + V^4 + V^2 + V + 1 \\
& V^{16} + V^{11} + V^8 + V^6 + V^5 + V^4 + V^3 + V^2 + 1 \\
& V^{16} + V^{11} + V^8 + V^7 + V^3 + V + 1 \\
& V^{16} + V^{11} + V^8 + V^7 + V^5 + V^2 + 1 \\
& V^{16} + V^{11} + V^8 + V^7 + V^5 + V^3 + V^2 + V + 1 \\
& V^{16} + V^{11} + V^8 + V^7 + V^6 + V + 1 \\
& V^{16} + V^{11} + V^8 + V^7 + V^6 + V^2 + 1 \\
& V^{16} + V^{11} + V^8 + V^7 + V^6 + V^5 + 1 \\
& V^{16} + V^{11} + V^8 + V^7 + V^6 + V^5 + V^2 + V + 1 \\
& V^{16} + V^{11} + V^8 + V^7 + V^6 + V^5 + V^3 + V^2 + 1 \\
& V^{16} + V^{11} + V^8 + V^7 + V^6 + V^5 + V^4 + V + 1 \\
& V^{16} + V^{11} + V^9 + V + 1 \\
& V^{16} + V^{11} + V^9 + V^4 + 1 \\
& V^{16} + V^{11} + V^9 + V^5 + V^4 + V^2 + 1
\end{aligned}$$

$V^{16} + V^{11} + V^9 + V^5 + V^4 + V^3 + 1$
 $V^{16} + V^{11} + V^9 + V^6 + V^4 + V^3 + V^2 + V + 1$
 $V^{16} + V^{11} + V^9 + V^6 + V^5 + V + 1$
 $V^{16} + V^{11} + V^9 + V^6 + V^5 + V^4 + 1$
 $V^{16} + V^{11} + V^9 + V^6 + V^5 + V^4 + V^3 + V^2 + 1$
 $V^{16} + V^{11} + V^9 + V^7 + 1$
 $V^{16} + V^{11} + V^9 + V^7 + V^4 + V^3 + V^2 + V + 1$
 $V^{16} + V^{11} + V^9 + V^7 + V^5 + V^4 + V^3 + V + 1$
 $V^{16} + V^{11} + V^9 + V^7 + V^6 + V^2 + 1$
 $V^{16} + V^{11} + V^9 + V^7 + V^6 + V^3 + V^2 + V + 1$
 $V^{16} + V^{11} + V^9 + V^7 + V^6 + V^4 + V^3 + V^2 + 1$
 $V^{16} + V^{11} + V^9 + V^7 + V^6 + V^5 + 1$
 $V^{16} + V^{11} + V^9 + V^7 + V^6 + V^5 + V^4 + V^3 + V^2 + V + 1$
 $V^{16} + V^{11} + V^9 + V^8 + 1$
 $V^{16} + V^{11} + V^9 + V^8 + V^4 + V + 1$
 $V^{16} + V^{11} + V^9 + V^8 + V^4 + V^2 + 1$
 $V^{16} + V^{11} + V^9 + V^8 + V^6 + V^4 + 1$
 $V^{16} + V^{11} + V^9 + V^8 + V^6 + V^4 + V^3 + V^2 + 1$
 $V^{16} + V^{11} + V^9 + V^8 + V^7 + V^4 + 1$
 $V^{16} + V^{11} + V^9 + V^8 + V^7 + V^4 + V^2 + V + 1$
 $V^{16} + V^{11} + V^9 + V^8 + V^7 + V^5 + V^4 + V + 1$
 $V^{16} + V^{11} + V^9 + V^8 + V^7 + V^6 + V^3 + V^2 + 1$
 $V^{16} + V^{11} + V^9 + V^8 + V^7 + V^6 + V^4 + V + 1$
 $V^{16} + V^{11} + V^9 + V^8 + V^7 + V^6 + V^5 + V^2 + 1$
 $V^{16} + V^{11} + V^9 + V^8 + V^7 + V^6 + V^5 + V^3 + V^2 + V + 1$
 $V^{16} + V^{11} + V^9 + V^8 + V^7 + V^6 + V^5 + V^4 + V^2 + V + 1$
 $V^{16} + V^{11} + V^9 + V^8 + V^7 + V^6 + V^5 + V^4 + V^3 + V^2 + 1$
 $V^{16} + V^{11} + V^{10} + V^3 + V^2 + V + 1$
 $V^{16} + V^{11} + V^{10} + V^4 + V^3 + V^2 + 1$
 $V^{16} + V^{11} + V^{10} + V^5 + 1$
 $V^{16} + V^{11} + V^{10} + V^5 + V^3 + V + 1$
 $V^{16} + V^{11} + V^{10} + V^6 + 1$
 $V^{16} + V^{11} + V^{10} + V^6 + V^5 + V^3 + 1$
 $V^{16} + V^{11} + V^{10} + V^6 + V^5 + V^4 + 1$
 $V^{16} + V^{11} + V^{10} + V^6 + V^5 + V^4 + V^3 + V + 1$
 $V^{16} + V^{11} + V^{10} + V^7 + V^3 + V^2 + 1$
 $V^{16} + V^{11} + V^{10} + V^7 + V^4 + V^2 + 1$
 $V^{16} + V^{11} + V^{10} + V^7 + V^5 + V + 1$
 $V^{16} + V^{11} + V^{10} + V^7 + V^5 + V^3 + V^2 + V + 1$
 $V^{16} + V^{11} + V^{10} + V^7 + V^5 + V^4 + V^3 + V^2 + 1$
 $V^{16} + V^{11} + V^{10} + V^7 + V^6 + V^4 + V^3 + V^2 + 1$
 $V^{16} + V^{11} + V^{10} + V^7 + V^6 + V^5 + V^3 + V + 1$
 $V^{16} + V^{11} + V^{10} + V^7 + V^6 + V^5 + V^4 + V + 1$
 $V^{16} + V^{11} + V^{10} + V^8 + V^3 + V^2 + 1$
 $V^{16} + V^{11} + V^{10} + V^8 + V^4 + V^3 + 1$
 $V^{16} + V^{11} + V^{10} + V^8 + V^4 + V^3 + V^2 + V + 1$
 $V^{16} + V^{11} + V^{10} + V^8 + V^6 + V + 1$
 $V^{16} + V^{11} + V^{10} + V^8 + V^6 + V^3 + 1$
 $V^{16} + V^{11} + V^{10} + V^8 + V^7 + V + 1$
 $V^{16} + V^{11} + V^{10} + V^8 + V^7 + V^3 + V^2 + V + 1$
 $V^{16} + V^{11} + V^{10} + V^8 + V^7 + V^4 + 1$
 $V^{16} + V^{11} + V^{10} + V^8 + V^7 + V^4 + V^3 + V^2 + 1$
 $V^{16} + V^{11} + V^{10} + V^8 + V^7 + V^5 + V^3 + V^2 + 1$

$V^{16} + V^{11} + V^{10} + V^8 + V^7 + V^5 + V^4 + V^2 + 1$

$V^{16} + V^{11} + V^{10} + V^8 + V^7 + V^6 + V^4 + V + 1$

$V^{16} + V^{11} + V^{10} + V^8 + V^7 + V^6 + V^5 + V + 1$

$V^{16} + V^{11} + V^{10} + V^8 + V^7 + V^6 + V^5 + V^2 + 1$

$V^{16} + V^{11} + V^{10} + V^9 + V^5 + V + 1$

$V^{16} + V^{11} + V^{10} + V^9 + V^6 + V^2 + 1$

$V^{16} + V^{11} + V^{10} + V^9 + V^6 + V^5 + V^4 + V + 1$

$V^{16} + V^{11} + V^{10} + V^9 + V^6 + V^5 + V^4 + V^3 + V^2 + V + 1$

$V^{16} + V^{11} + V^{10} + V^9 + V^7 + V^2 + 1$

$V^{16} + V^{11} + V^{10} + V^9 + V^7 + V^4 + 1$

$V^{16} + V^{11} + V^{10} + V^9 + V^7 + V^4 + V^2 + V + 1$

$V^{16} + V^{11} + V^{10} + V^9 + V^7 + V^4 + V^3 + V^2 + 1$

$V^{16} + V^{11} + V^{10} + V^9 + V^7 + V^5 + 1$

$V^{16} + V^{11} + V^{10} + V^9 + V^7 + V^5 + V^2 + V + 1$

$V^{16} + V^{11} + V^{10} + V^9 + V^7 + V^6 + V^2 + V + 1$

$V^{16} + V^{11} + V^{10} + V^9 + V^7 + V^6 + V^3 + V + 1$

$V^{16} + V^{11} + V^{10} + V^9 + V^7 + V^6 + V^5 + V^4 + V^3 + V^2 + 1$

$V^{16} + V^{11} + V^{10} + V^9 + V^8 + V + 1$

$V^{16} + V^{11} + V^{10} + V^9 + V^8 + V^2 + 1$

$V^{16} + V^{11} + V^{10} + V^9 + V^8 + V^3 + 1$

$V^{16} + V^{11} + V^{10} + V^9 + V^8 + V^4 + V^3 + V + 1$

$V^{16} + V^{11} + V^{10} + V^9 + V^8 + V^5 + 1$

$V^{16} + V^{11} + V^{10} + V^9 + V^8 + V^6 + V^5 + V^3 + 1$

$V^{16} + V^{11} + V^{10} + V^9 + V^8 + V^6 + V^5 + V^4 + V^2 + V + 1$

$V^{16} + V^{11} + V^{10} + V^9 + V^8 + V^7 + V^2 + V + 1$

$V^{16} + V^{11} + V^{10} + V^9 + V^8 + V^7 + V^3 + V + 1$

$V^{16} + V^{11} + V^{10} + V^9 + V^8 + V^7 + V^4 + V^2 + 1$

$V^{16} + V^{11} + V^{10} + V^9 + V^8 + V^7 + V^4 + V^3 + 1$

$V^{16} + V^{11} + V^{10} + V^9 + V^8 + V^7 + V^5 + V^4 + 1$

$V^{16} + V^{11} + V^{10} + V^9 + V^8 + V^7 + V^5 + V^4 + V^3 + V^2 + 1$

$V^{16} + V^{11} + V^{10} + V^9 + V^8 + V^7 + V^6 + V^3 + V^2 + V + 1$

$V^{16} + V^{11} + V^{10} + V^9 + V^8 + V^7 + V^6 + V^4 + V^3 + V + 1$

$V^{16} + V^{11} + V^{10} + V^9 + V^8 + V^7 + V^6 + V^5 + V^2 + V + 1$

$V^{16} + V^{11} + V^{10} + V^9 + V^8 + V^7 + V^6 + V^5 + V^3 + V + 1$

$V^{16} + V^{12} + V^3 + V + 1$

$V^{16} + V^{12} + V^5 + V^2 + 1$

$V^{16} + V^{12} + V^5 + V^4 + V^3 + V^2 + 1$

$V^{16} + V^{12} + V^6 + V + 1$

$V^{16} + V^{12} + V^6 + V^3 + V^2 + V + 1$

$V^{16} + V^{12} + V^6 + V^4 + V^3 + V^2 + 1$

$V^{16} + V^{12} + V^6 + V^5 + V^4 + V^3 + V^2 + V + 1$

$V^{16} + V^{12} + V^7 + V + 1$

$V^{16} + V^{12} + V^7 + V^2 + 1$

$V^{16} + V^{12} + V^7 + V^4 + V^2 + V + 1$

$V^{16} + V^{12} + V^7 + V^4 + V^3 + V + 1$

$V^{16} + V^{12} + V^7 + V^5 + 1$

$V^{16} + V^{12} + V^7 + V^5 + V^2 + V + 1$

$V^{16} + V^{12} + V^7 + V^5 + V^4 + V^2 + 1$

$V^{16} + V^{12} + V^8 + V^4 + V^3 + V^2 + 1$

$V^{16} + V^{12} + V^8 + V^5 + V^2 + V + 1$

$V^{16} + V^{12} + V^8 + V^5 + V^4 + V^3 + 1$

$V^{16} + V^{12} + V^8 + V^6 + V^2 + V + 1$

$V^{16} + V^{12} + V^8 + V^6 + V^3 + V^2 + 1$

$$\begin{aligned}
& V^{16} + V^{12} + V^8 + V^6 + V^4 + V^3 + V^2 + V + 1 \\
& V^{16} + V^{12} + V^8 + V^6 + V^5 + V^3 + V^2 + V + 1 \\
& V^{16} + V^{12} + V^8 + V^7 + V^6 + V^3 + 1 \\
& V^{16} + V^{12} + V^8 + V^7 + V^6 + V^4 + V^3 + V + 1 \\
& V^{16} + V^{12} + V^8 + V^7 + V^6 + V^4 + V^3 + V^2 + 1 \\
& V^{16} + V^{12} + V^8 + V^7 + V^6 + V^5 + V^3 + V + 1 \\
& V^{16} + V^{12} + V^8 + V^7 + V^6 + V^5 + V^3 + V^2 + 1 \\
& V^{16} + V^{12} + V^8 + V^7 + V^6 + V^5 + V^4 + V + 1 \\
& V^{16} + V^{12} + V^8 + V^7 + V^6 + V^5 + V^4 + V^3 + 1 \\
& V^{16} + V^{12} + V^9 + V^6 + 1 \\
& V^{16} + V^{12} + V^9 + V^6 + V^2 + V + 1 \\
& V^{16} + V^{12} + V^9 + V^6 + V^4 + V + 1 \\
& V^{16} + V^{12} + V^9 + V^6 + V^4 + V^2 + 1 \\
& V^{16} + V^{12} + V^9 + V^6 + V^5 + V + 1 \\
& V^{16} + V^{12} + V^9 + V^6 + V^5 + V^4 + V^2 + V + 1 \\
& V^{16} + V^{12} + V^9 + V^7 + 1 \\
& V^{16} + V^{12} + V^9 + V^7 + V^3 + V + 1 \\
& V^{16} + V^{12} + V^9 + V^7 + V^4 + V + 1 \\
& V^{16} + V^{12} + V^9 + V^7 + V^4 + V^3 + 1 \\
& V^{16} + V^{12} + V^9 + V^7 + V^5 + V^2 + 1 \\
& V^{16} + V^{12} + V^9 + V^7 + V^5 + V^3 + V^2 + V + 1 \\
& V^{16} + V^{12} + V^9 + V^7 + V^5 + V^4 + V^3 + V^2 + 1 \\
& V^{16} + V^{12} + V^9 + V^7 + V^6 + V^2 + 1 \\
& V^{16} + V^{12} + V^9 + V^7 + V^6 + V^4 + V^2 + V + 1 \\
& V^{16} + V^{12} + V^9 + V^7 + V^6 + V^4 + V^3 + V + 1 \\
& V^{16} + V^{12} + V^9 + V^7 + V^6 + V^5 + 1 \\
& V^{16} + V^{12} + V^9 + V^7 + V^6 + V^5 + V^3 + V^2 + 1 \\
& V^{16} + V^{12} + V^9 + V^7 + V^6 + V^5 + V^4 + V + 1 \\
& V^{16} + V^{12} + V^9 + V^7 + V^6 + V^5 + V^4 + V^3 + V^2 + V + 1 \\
& V^{16} + V^{12} + V^9 + V^8 + V^5 + V^4 + V^3 + V + 1 \\
& V^{16} + V^{12} + V^9 + V^8 + V^5 + V^4 + V^3 + V^2 + 1 \\
& V^{16} + V^{12} + V^9 + V^8 + V^6 + V^4 + 1 \\
& V^{16} + V^{12} + V^9 + V^8 + V^6 + V^4 + V^2 + V + 1 \\
& V^{16} + V^{12} + V^9 + V^8 + V^6 + V^5 + 1 \\
& V^{16} + V^{12} + V^9 + V^8 + V^6 + V^5 + V^3 + V + 1 \\
& V^{16} + V^{12} + V^9 + V^8 + V^6 + V^5 + V^4 + V^2 + 1 \\
& V^{16} + V^{12} + V^9 + V^8 + V^6 + V^5 + V^4 + V^3 + 1 \\
& V^{16} + V^{12} + V^9 + V^8 + V^7 + V^4 + V^3 + V^2 + 1 \\
& V^{16} + V^{12} + V^9 + V^8 + V^7 + V^5 + 1 \\
& V^{16} + V^{12} + V^9 + V^8 + V^7 + V^6 + V^4 + V^3 + V^2 + V + 1 \\
& V^{16} + V^{12} + V^9 + V^8 + V^7 + V^6 + V^5 + V^4 + V^2 + V + 1 \\
& V^{16} + V^{12} + V^{10} + V^3 + 1 \\
& V^{16} + V^{12} + V^{10} + V^4 + V^3 + V + 1 \\
& V^{16} + V^{12} + V^{10} + V^5 + V^4 + V + 1 \\
& V^{16} + V^{12} + V^{10} + V^5 + V^4 + V^2 + 1 \\
& V^{16} + V^{12} + V^{10} + V^6 + V^3 + V + 1 \\
& V^{16} + V^{12} + V^{10} + V^6 + V^3 + V^2 + 1 \\
& V^{16} + V^{12} + V^{10} + V^6 + V^4 + V^3 + 1 \\
& V^{16} + V^{12} + V^{10} + V^6 + V^4 + V^3 + V^2 + V + 1 \\
& V^{16} + V^{12} + V^{10} + V^7 + V^2 + V + 1 \\
& V^{16} + V^{12} + V^{10} + V^7 + V^4 + V + 1 \\
& V^{16} + V^{12} + V^{10} + V^7 + V^5 + V^3 + V^2 + V + 1 \\
& V^{16} + V^{12} + V^{10} + V^7 + V^5 + V^4 + 1
\end{aligned}$$

[illegible]

[illegible]

[illegible]

$V^{16} + V^{12} + V^{11} + V^{10} + V^9 + V^7 + V^5 + V^3 + 1$

$V^{16} + V^{12} + V^{11} + V^{10} + V^9 + V^7 + V^5 + V^4 + V^3 + V^2 + 1$

$V^{16} + V^{12} + V^{11} + V^{10} + V^9 + V^7 + V^6 + V + 1$

$V^{16} + V^{12} + V^{11} + V^{10} + V^9 + V^7 + V^6 + V^2 + 1$

$V^{16} + V^{12} + V^{11} + V^{10} + V^9 + V^7 + V^6 + V^3 + V^2 + V + 1$

$V^{16} + V^{12} + V^{11} + V^{10} + V^9 + V^7 + V^6 + V^4 + V^3 + V^2 + 1$

$V^{16} + V^{12} + V^{11} + V^{10} + V^9 + V^7 + V^6 + V^5 + V^2 + V + 1$

$V^{16} + V^{12} + V^{11} + V^{10} + V^9 + V^7 + V^6 + V^5 + V^3 + V + 1$

$V^{16} + V^{12} + V^{11} + V^{10} + V^9 + V^7 + V^6 + V^5 + V^4 + V + 1$

$V^{16} + V^{12} + V^{11} + V^{10} + V^9 + V^8 + V^4 + V + 1$

$V^{16} + V^{12} + V^{11} + V^{10} + V^9 + V^8 + V^5 + V^3 + 1$

$V^{16} + V^{12} + V^{11} + V^{10} + V^9 + V^8 + V^5 + V^3 + V^2 + V + 1$

$V^{16} + V^{12} + V^{11} + V^{10} + V^9 + V^8 + V^5 + V^4 + V^3 + V + 1$

$V^{16} + V^{12} + V^{11} + V^{10} + V^9 + V^8 + V^5 + V^4 + V^3 + V^2 + 1$

$V^{16} + V^{12} + V^{11} + V^{10} + V^9 + V^8 + V^6 + V^4 + V^2 + V + 1$

$V^{16} + V^{12} + V^{11} + V^{10} + V^9 + V^8 + V^6 + V^5 + V^2 + V + 1$

$V^{16} + V^{12} + V^{11} + V^{10} + V^9 + V^8 + V^6 + V^5 + V^3 + V^2 + 1$

$V^{16} + V^{12} + V^{11} + V^{10} + V^9 + V^8 + V^6 + V^5 + V^4 + V + 1$

$V^{16} + V^{12} + V^{11} + V^{10} + V^9 + V^8 + V^6 + V^5 + V^4 + V^2 + 1$

$V^{16} + V^{12} + V^{11} + V^{10} + V^9 + V^8 + V^7 + V + 1$

$V^{16} + V^{12} + V^{11} + V^{10} + V^9 + V^8 + V^7 + V^4 + V^3 + V + 1$

$V^{16} + V^{12} + V^{11} + V^{10} + V^9 + V^8 + V^7 + V^4 + V^3 + V^2 + 1$

$V^{16} + V^{12} + V^{11} + V^{10} + V^9 + V^8 + V^7 + V^5 + V^4 + V^3 + 1$

$V^{16} + V^{12} + V^{11} + V^{10} + V^9 + V^8 + V^7 + V^5 + V^4 + V^3 + V^2 + V + 1$

$V^{16} + V^{12} + V^{11} + V^{10} + V^9 + V^8 + V^7 + V^6 + 1$

$V^{16} + V^{13} + V^3 + V^2 + 1$

$V^{16} + V^{13} + V^4 + V^3 + V^2 + V + 1$

$V^{16} + V^{13} + V^5 + V^2 + 1$

$V^{16} + V^{13} + V^5 + V^4 + V^3 + V^2 + 1$

$V^{16} + V^{13} + V^6 + V^4 + 1$

$V^{16} + V^{13} + V^6 + V^5 + V^4 + V + 1$

$V^{16} + V^{13} + V^7 + V^3 + V^2 + V + 1$

$V^{16} + V^{13} + V^7 + V^4 + V^3 + V + 1$

$V^{16} + V^{13} + V^7 + V^5 + V^3 + V + 1$

$V^{16} + V^{13} + V^7 + V^5 + V^4 + V^2 + 1$

$V^{16} + V^{13} + V^7 + V^5 + V^4 + V^3 + 1$

$V^{16} + V^{13} + V^7 + V^6 + V^2 + V + 1$

$V^{16} + V^{13} + V^7 + V^6 + V^5 + V + 1$

$V^{16} + V^{13} + V^8 + V^2 + 1$

$V^{16} + V^{13} + V^8 + V^3 + 1$

$V^{16} + V^{13} + V^8 + V^4 + V^3 + V + 1$

$V^{16} + V^{13} + V^8 + V^6 + 1$

$V^{16} + V^{13} + V^8 + V^6 + V^4 + V + 1$

$V^{16} + V^{13} + V^8 + V^6 + V^5 + V + 1$

$V^{16} + V^{13} + V^8 + V^6 + V^5 + V^3 + 1$

$V^{16} + V^{13} + V^8 + V^6 + V^5 + V^4 + V^3 + V + 1$

$V^{16} + V^{13} + V^8 + V^7 + V^2 + V + 1$

$V^{16} + V^{13} + V^8 + V^7 + V^4 + V^2 + 1$

$V^{16} + V^{13} + V^8 + V^7 + V^5 + V^3 + 1$

$V^{16} + V^{13} + V^8 + V^7 + V^5 + V^4 + 1$

$V^{16} + V^{13} + V^8 + V^7 + V^6 + V^2 + 1$

$V^{16} + V^{13} + V^8 + V^7 + V^6 + V^3 + V^2 + V + 1$

$V^{16} + V^{13} + V^8 + V^7 + V^6 + V^5 + 1$

$$\begin{aligned}
& V^{16} + V^{13} + V^8 + V^7 + V^6 + V^5 + V^2 + V + 1 \\
& V^{16} + V^{13} + V^8 + V^7 + V^6 + V^5 + V^4 + V^3 + 1 \\
& V^{16} + V^{13} + V^9 + V^4 + V^2 + V + 1 \\
& V^{16} + V^{13} + V^9 + V^5 + V^2 + V + 1 \\
& V^{16} + V^{13} + V^9 + V^5 + V^4 + V^2 + 1 \\
& V^{16} + V^{13} + V^9 + V^6 + 1 \\
& V^{16} + V^{13} + V^9 + V^6 + V^4 + V + 1 \\
& V^{16} + V^{13} + V^9 + V^6 + V^4 + V^3 + 1 \\
& V^{16} + V^{13} + V^9 + V^6 + V^4 + V^3 + V^2 + V + 1 \\
& V^{16} + V^{13} + V^9 + V^6 + V^5 + V^3 + 1 \\
& V^{16} + V^{13} + V^9 + V^6 + V^5 + V^4 + V^3 + V + 1 \\
& V^{16} + V^{13} + V^9 + V^7 + V^3 + V + 1 \\
& V^{16} + V^{13} + V^9 + V^7 + V^4 + V + 1 \\
& V^{16} + V^{13} + V^9 + V^7 + V^4 + V^2 + 1 \\
& V^{16} + V^{13} + V^9 + V^7 + V^5 + V^2 + 1 \\
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& V^{16} + V^{13} + V^9 + V^7 + V^6 + V^3 + V^2 + V + 1 \\
& V^{16} + V^{13} + V^9 + V^7 + V^6 + V^4 + V^3 + V^2 + 1 \\
& V^{16} + V^{13} + V^9 + V^7 + V^6 + V^5 + V^2 + V + 1 \\
& V^{16} + V^{13} + V^9 + V^7 + V^6 + V^5 + V^4 + V^3 + 1 \\
& V^{16} + V^{13} + V^9 + V^8 + V^4 + V^2 + 1 \\
& V^{16} + V^{13} + V^9 + V^8 + V^4 + V^3 + V^2 + V + 1 \\
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& V^{16} + V^{13} + V^9 + V^8 + V^7 + V^6 + V^5 + V^3 + 1 \\
& V^{16} + V^{13} + V^{10} + V + 1 \\
& V^{16} + V^{13} + V^{10} + V^3 + V^2 + V + 1 \\
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& V^{16} + V^{13} + V^{10} + V^7 + V^4 + V^3 + 1 \\
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& V^{16} + V^{13} + V^{10} + V^8 + V^4 + V^2 + 1 \\
& V^{16} + V^{13} + V^{10} + V^8 + V^5 + V + 1 \\
& V^{16} + V^{13} + V^{10} + V^8 + V^5 + V^3 + 1 \\
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& V^{16} + V^{13} + V^{12} + V^{11} + V^{10} + V^9 + V^8 + V^7 + V^4 + V^3 + V^2 + V + 1 \\
& V^{16} + V^{13} + V^{12} + V^{11} + V^{10} + V^9 + V^8 + V^7 + V^5 + V^2 + 1 \\
& V^{16} + V^{13} + V^{12} + V^{11} + V^{10} + V^9 + V^8 + V^7 + V^5 + V^3 + 1 \\
& V^{16} + V^{13} + V^{12} + V^{11} + V^{10} + V^9 + V^8 + V^7 + V^5 + V^4 + V^2 + V + 1 \\
& V^{16} + V^{13} + V^{12} + V^{11} + V^{10} + V^9 + V^8 + V^7 + V^6 + V^2 + 1 \\
& V^{16} + V^{13} + V^{12} + V^{11} + V^{10} + V^9 + V^8 + V^7 + V^6 + V^4 + V^3 + V + 1 \\
& V^{16} + V^{13} + V^{12} + V^{11} + V^{10} + V^9 + V^8 + V^7 + V^6 + V^5 + V^4 + V^2 + 1 \\
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& V^{16} + V^{14} + V^6 + V^5 + V^4 + V^2 + 1 \\
& V^{16} + V^{14} + V^6 + V^5 + V^4 + V^3 + 1 \\
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& V^{16} + V^{14} + V^7 + V^4 + V^3 + V + 1 \\
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& V^{16} + V^{14} + V^7 + V^6 + V^4 + V + 1 \\
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& V^{16} + V^{14} + V^7 + V^6 + V^5 + V^4 + V^2 + V + 1 \\
& V^{16} + V^{14} + V^8 + V + 1 \\
& V^{16} + V^{14} + V^8 + V^3 + 1 \\
& V^{16} + V^{14} + V^8 + V^5 + V^4 + V^3 + V^2 + V + 1 \\
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& V^{16} + V^{14} + V^9 + V + 1 \\
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& V^{16} + V^{14} + V^9 + V^6 + V^5 + V^4 + V^3 + V + 1 \\
& V^{16} + V^{14} + V^9 + V^6 + V^5 + V^4 + V^3 + V^2 + 1 \\
& V^{16} + V^{14} + V^9 + V^7 + 1 \\
& V^{16} + V^{14} + V^9 + V^7 + V^2 + V + 1 \\
& V^{16} + V^{14} + V^9 + V^7 + V^5 + V^2 + 1 \\
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& V^{16} + V^{14} + V^9 + V^7 + V^5 + V^4 + V^2 + V + 1 \\
& V^{16} + V^{14} + V^9 + V^7 + V^5 + V^4 + V^3 + V + 1 \\
& V^{16} + V^{14} + V^9 + V^7 + V^6 + V^3 + V^2 + V + 1 \\
& V^{16} + V^{14} + V^9 + V^7 + V^6 + V^5 + 1 \\
& V^{16} + V^{14} + V^9 + V^7 + V^6 + V^5 + V^3 + V^2 + 1 \\
& V^{16} + V^{14} + V^9 + V^7 + V^6 + V^5 + V^4 + V^3 + 1
\end{aligned}$$

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$V^{16} + V^{14} + V^{10} + V^9 + V^7 + V^6 + V^4 + V^2 + 1$
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 $V^{16} + V^{14} + V^{10} + V^9 + V^8 + V^3 + 1$
 $V^{16} + V^{14} + V^{10} + V^9 + V^8 + V^4 + V^2 + V + 1$
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 $V^{16} + V^{14} + V^{10} + V^9 + V^8 + V^7 + V^6 + V^5 + V^4 + V^3 + 1$
 $V^{16} + V^{14} + V^{11} + V^3 + 1$
 $V^{16} + V^{14} + V^{11} + V^4 + 1$
 $V^{16} + V^{14} + V^{11} + V^4 + V^3 + V^2 + 1$
 $V^{16} + V^{14} + V^{11} + V^5 + V^2 + V + 1$
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 $V^{16} + V^{14} + V^{11} + V^6 + 1$
 $V^{16} + V^{14} + V^{11} + V^6 + V^2 + V + 1$
 $V^{16} + V^{14} + V^{11} + V^6 + V^4 + V^3 + 1$
 $V^{16} + V^{14} + V^{11} + V^7 + 1$
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 $V^{16} + V^{14} + V^{11} + V^8 + V^3 + V + 1$
 $V^{16} + V^{14} + V^{11} + V^8 + V^4 + V^2 + 1$
 $V^{16} + V^{14} + V^{11} + V^8 + V^4 + V^3 + 1$
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 $V^{16} + V^{14} + V^{11} + V^8 + V^5 + V^4 + 1$
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 $V^{16} + V^{14} + V^{11} + V^8 + V^6 + V^4 + V^3 + V^2 + 1$
 $V^{16} + V^{14} + V^{11} + V^8 + V^6 + V^5 + V^2 + V + 1$
 $V^{16} + V^{14} + V^{11} + V^8 + V^7 + V^3 + 1$
 $V^{16} + V^{14} + V^{11} + V^8 + V^7 + V^3 + V^2 + V + 1$
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 $V^{16} + V^{14} + V^{11} + V^8 + V^7 + V^6 + V^5 + V^2 + 1$
 $V^{16} + V^{14} + V^{11} + V^8 + V^7 + V^6 + V^5 + V^4 + V^3 + V + 1$
 $V^{16} + V^{14} + V^{11} + V^9 + V^4 + V + 1$
 $V^{16} + V^{14} + V^{11} + V^9 + V^4 + V^2 + 1$

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$$\begin{aligned}
&V^{16} + V^{15} + V^9 + V^5 + V^2 + V + 1 \\
&V^{16} + V^{15} + V^9 + V^5 + V^4 + V^2 + 1 \\
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&V^{16} + V^{15} + V^9 + V^6 + V^4 + V^2 + 1 \\
&V^{16} + V^{15} + V^9 + V^6 + V^5 + V^2 + 1 \\
&V^{16} + V^{15} + V^9 + V^6 + V^5 + V^4 + V^2 + V + 1 \\
&V^{16} + V^{15} + V^9 + V^7 + V^3 + V + 1 \\
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&V^{16} + V^{15} + V^9 + V^7 + V^4 + V^3 + V^2 + V + 1 \\
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&V^{16} + V^{15} + V^9 + V^7 + V^6 + V^4 + 1 \\
&V^{16} + V^{15} + V^9 + V^7 + V^6 + V^5 + V^2 + V + 1 \\
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&V^{16} + V^{15} + V^9 + V^7 + V^6 + V^5 + V^4 + V^2 + 1 \\
&V^{16} + V^{15} + V^9 + V^7 + V^6 + V^5 + V^4 + V^3 + V^2 + V + 1 \\
&V^{16} + V^{15} + V^9 + V^8 + V^2 + V + 1 \\
&V^{16} + V^{15} + V^9 + V^8 + V^4 + V^2 + 1 \\
&V^{16} + V^{15} + V^9 + V^8 + V^5 + V^3 + 1 \\
&V^{16} + V^{15} + V^9 + V^8 + V^5 + V^4 + V^3 + V + 1 \\
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&V^{16} + V^{15} + V^9 + V^8 + V^6 + V^5 + V^4 + V^3 + 1 \\
&V^{16} + V^{15} + V^9 + V^8 + V^7 + V^2 + 1 \\
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&V^{16} + V^{15} + V^9 + V^8 + V^7 + V^6 + 1 \\
&V^{16} + V^{15} + V^9 + V^8 + V^7 + V^6 + V^4 + V^2 + 1 \\
&V^{16} + V^{15} + V^9 + V^8 + V^7 + V^6 + V^4 + V^3 + V^2 + V + 1 \\
&V^{16} + V^{15} + V^9 + V^8 + V^7 + V^6 + V^5 + V^4 + 1 \\
&V^{16} + V^{15} + V^9 + V^8 + V^7 + V^6 + V^5 + V^4 + V^2 + V + 1 \\
&V^{16} + V^{15} + V^{10} + V^4 + 1 \\
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&V^{16} + V^{15} + V^{10} + V^7 + V^5 + V^4 + 1 \\
&V^{16} + V^{15} + V^{10} + V^7 + V^5 + V^4 + V^2 + V + 1 \\
&V^{16} + V^{15} + V^{10} + V^7 + V^6 + V^3 + V^2 + V + 1 \\
&V^{16} + V^{15} + V^{10} + V^7 + V^6 + V^4 + 1 \\
&V^{16} + V^{15} + V^{10} + V^7 + V^6 + V^4 + V^3 + V^2 + 1 \\
&V^{16} + V^{15} + V^{10} + V^7 + V^6 + V^5 + V^4 + V^3 + 1
\end{aligned}$$

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$V^{16} + V^{15} + V^{12} + V^{11} + V^{10} + V^9 + V^8 + V^7 + V^5 + V^2 + 1$
$V^{16} + V^{15} + V^{12} + V^{11} + V^{10} + V^9 + V^8 + V^7 + V^5 + V^4 + V^2 + V + 1$
$V^{16} + V^{15} + V^{12} + V^{11} + V^{10} + V^9 + V^8 + V^7 + V^5 + V^4 + V^3 + V^2 + 1$
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$V^{16} + V^{15} + V^{13} + V^5 + V^3 + V^2 + 1$
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$V^{16} + V^{15} + V^{13} + V^8 + V^3 + V^2 + 1$
$V^{16} + V^{15} + V^{13} + V^8 + V^4 + V + 1$
$V^{16} + V^{15} + V^{13} + V^8 + V^4 + V^3 + V^2 + V + 1$
$V^{16} + V^{15} + V^{13} + V^8 + V^5 + V^2 + 1$
$V^{16} + V^{15} + V^{13} + V^8 + V^5 + V^3 + 1$
$V^{16} + V^{15} + V^{13} + V^8 + V^5 + V^4 + 1$
$V^{16} + V^{15} + V^{13} + V^8 + V^5 + V^4 + V^2 + V + 1$
$V^{16} + V^{15} + V^{13} + V^8 + V^6 + V^2 + 1$
$V^{16} + V^{15} + V^{13} + V^8 + V^7 + V^2 + 1$
$V^{16} + V^{15} + V^{13} + V^8 + V^7 + V^4 + V^2 + V + 1$
$V^{16} + V^{15} + V^{13} + V^8 + V^7 + V^5 + V^3 + V + 1$
$V^{16} + V^{15} + V^{13} + V^8 + V^7 + V^6 + V^4 + V^3 + 1$
$V^{16} + V^{15} + V^{13} + V^8 + V^7 + V^6 + V^5 + V + 1$
$V^{16} + V^{15} + V^{13} + V^8 + V^7 + V^6 + V^5 + V^4 + V^3 + V^2 + 1$
$V^{16} + V^{15} + V^{13} + V^9 + V^5 + V^4 + V^3 + V + 1$
$V^{16} + V^{15} + V^{13} + V^9 + V^6 + V^5 + V^4 + V^2 + 1$
$V^{16} + V^{15} + V^{13} + V^9 + V^7 + V + 1$
$V^{16} + V^{15} + V^{13} + V^9 + V^7 + V^3 + 1$
$V^{16} + V^{15} + V^{13} + V^9 + V^7 + V^4 + 1$
$V^{16} + V^{15} + V^{13} + V^9 + V^7 + V^4 + V^3 + V^2 + 1$
$V^{16} + V^{15} + V^{13} + V^9 + V^7 + V^5 + V^2 + V + 1$
$V^{16} + V^{15} + V^{13} + V^9 + V^7 + V^5 + V^3 + V^2 + 1$
$V^{16} + V^{15} + V^{13} + V^9 + V^7 + V^5 + V^4 + V^3 + V^2 + V + 1$
$V^{16} + V^{15} + V^{13} + V^9 + V^7 + V^6 + 1$
$V^{16} + V^{15} + V^{13} + V^9 + V^7 + V^6 + V^2 + V + 1$
$V^{16} + V^{15} + V^{13} + V^9 + V^7 + V^6 + V^5 + V^4 + V^3 + V^2 + 1$
$V^{16} + V^{15} + V^{13} + V^9 + V^8 + V^4 + V^3 + V + 1$
$V^{16} + V^{15} + V^{13} + V^9 + V^8 + V^5 + 1$
$V^{16} + V^{15} + V^{13} + V^9 + V^8 + V^5 + V^3 + V + 1$
$V^{16} + V^{15} + V^{13} + V^9 + V^8 + V^5 + V^4 + V + 1$
$V^{16} + V^{15} + V^{13} + V^9 + V^8 + V^6 + V^2 + V + 1$

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$ \begin{aligned} &V^{16} + V^{15} + V^{14} + V^{13} + V^{12} + V^{11} + V^{10} + V^9 + V^8 + V^7 + V^4 + V + 1 \\ &V^{16} + V^{15} + V^{14} + V^{13} + V^{12} + V^{11} + V^{10} + V^9 + V^8 + V^7 + V^5 + V^2 + 1 \\ &V^{16} + V^{15} + V^{14} + V^{13} + V^{12} + V^{11} + V^{10} + V^9 + V^8 + V^7 + V^5 + V^4 + 1 \\ &V^{16} + V^{15} + V^{14} + V^{13} + V^{12} + V^{11} + V^{10} + V^9 + V^8 + V^7 + V^6 + V^5 + V^3 + V + 1 \\ &V^{16} + V^{15} + V^{14} + V^{13} + V^{12} + V^{11} + V^{10} + V^9 + V^8 + V^7 + V^6 + V^5 + V^3 + V^2 + 1 \end{aligned} $
