*
$$(\frac{-1}{p}) = (-1)^{\frac{p-1}{2}} = \begin{cases} 1 & \frac{p-1}{2} : \frac{p+1}{2} \Rightarrow p \equiv 1 \pmod{4} \\ 1 & \frac{p-1}{2} : \frac{p+1}{2} \Rightarrow p \equiv 3 \pmod{4} \end{cases}$$

* $p = 4k+1 \Rightarrow \frac{p-1}{2} = \frac{4k+1}{2} = \frac{4k+2}{2} = \frac{2k+1}{2}$

* $(\frac{2}{p}) = \begin{cases} 1 & \frac{p-1}{2} = \frac{4k+1}{2} = \frac{2k+1}{2} = \frac{2k+1}{2} \end{cases}$

* $(\frac{2}{p}) = \begin{cases} 1 & \frac{p-1}{2} = \frac{4k+2}{2} = \frac{2k+1}{2} \end{cases}$

* $p = 4k+3 \Rightarrow \frac{p-1}{2} = \frac{4k+2}{2} = \frac{2k+1}{2} = \frac{2k+1}{2} \end{cases}$

* $p = 4k+3 \Rightarrow \frac{p-1}{2} = \frac{4k+2}{2} = \frac{2k+1}{2} = \frac{2k+1}{2} \end{cases}$

* $p = 4k+3 \Rightarrow \frac{p-1}{2} = \frac{4k+2}{2} = \frac{2k+1}{2} = \frac{2k$

🗓 📇 기 행이 잘 나울겠다.

