

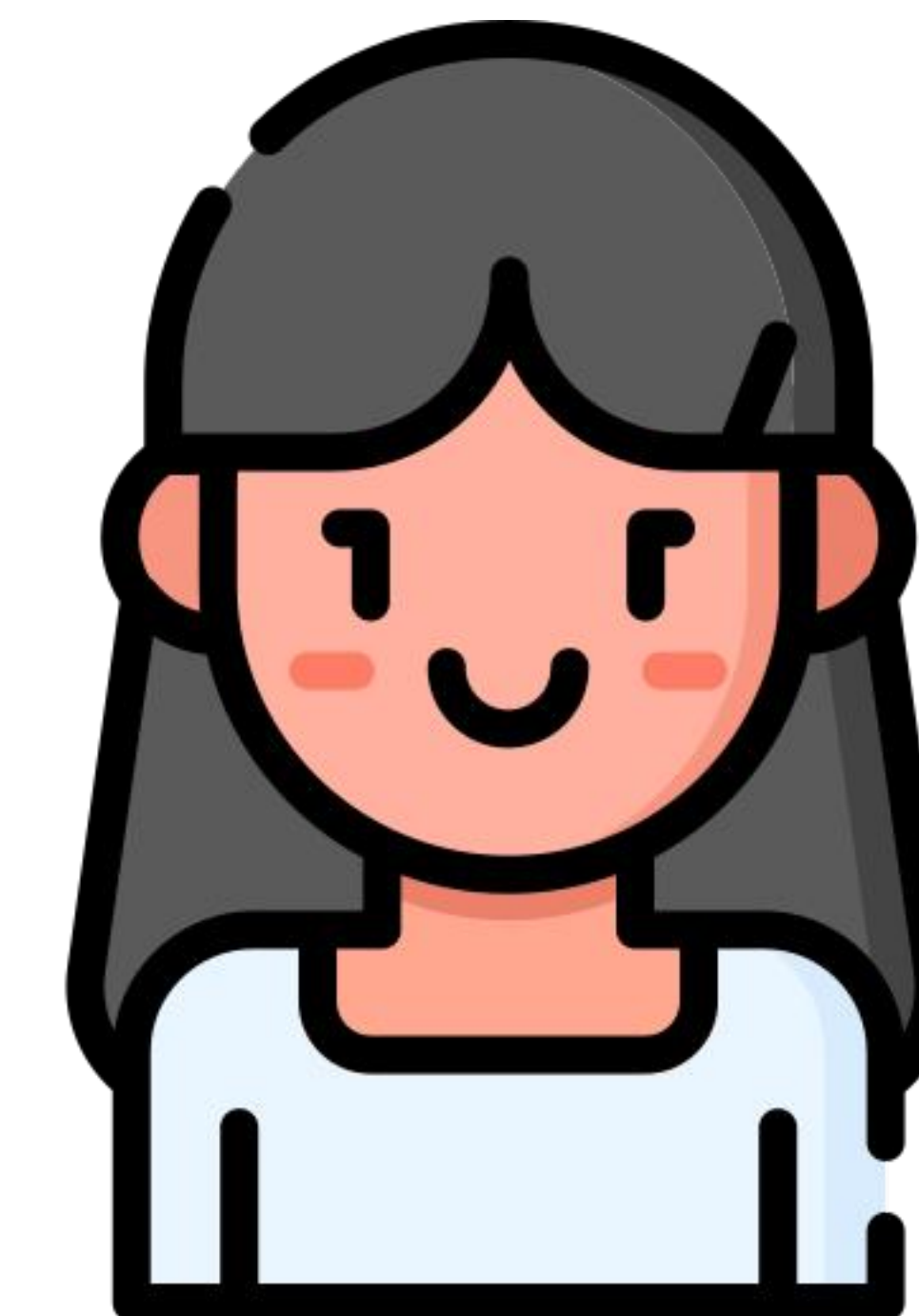
\mathcal{P}



1. Sample r from \mathbf{Z}_N uniformly
2. Send $a = r^2 \pmod{N}$

I know w s.t.
 $w^2 = x \pmod{N}$

\mathcal{V}



Is x indeed a
quadr. residue?