For a family of sets
$$\{X_i\}_{1}^{23}$$
, consider $Y := \bigcup_{i=1}^{23} X_i$.
Let $F: Y \to \mathbb{Z}$ be a mapping defined by
$$F(Y) := \sqrt{\max(\#Y, 10)}, \qquad (1)$$

$$G(Y) := F(Y)^2. \qquad (2)$$