

## **0.1 Residue systems**

### **0.1.1 Least residue system modulo $n$**

This is the set of numbers from 0 to  $n - 1$ .

### **0.1.2 Complete residue system**

This a set of numbers none of which are congruent  $\pmod n$ . That is, for no pair  $\{a, b\}$  does  $a \pmod n = b \pmod n$

### **0.1.3 Reduced residue system**

This is a complete residue system where all numbers are relatively prime to  $n$ .