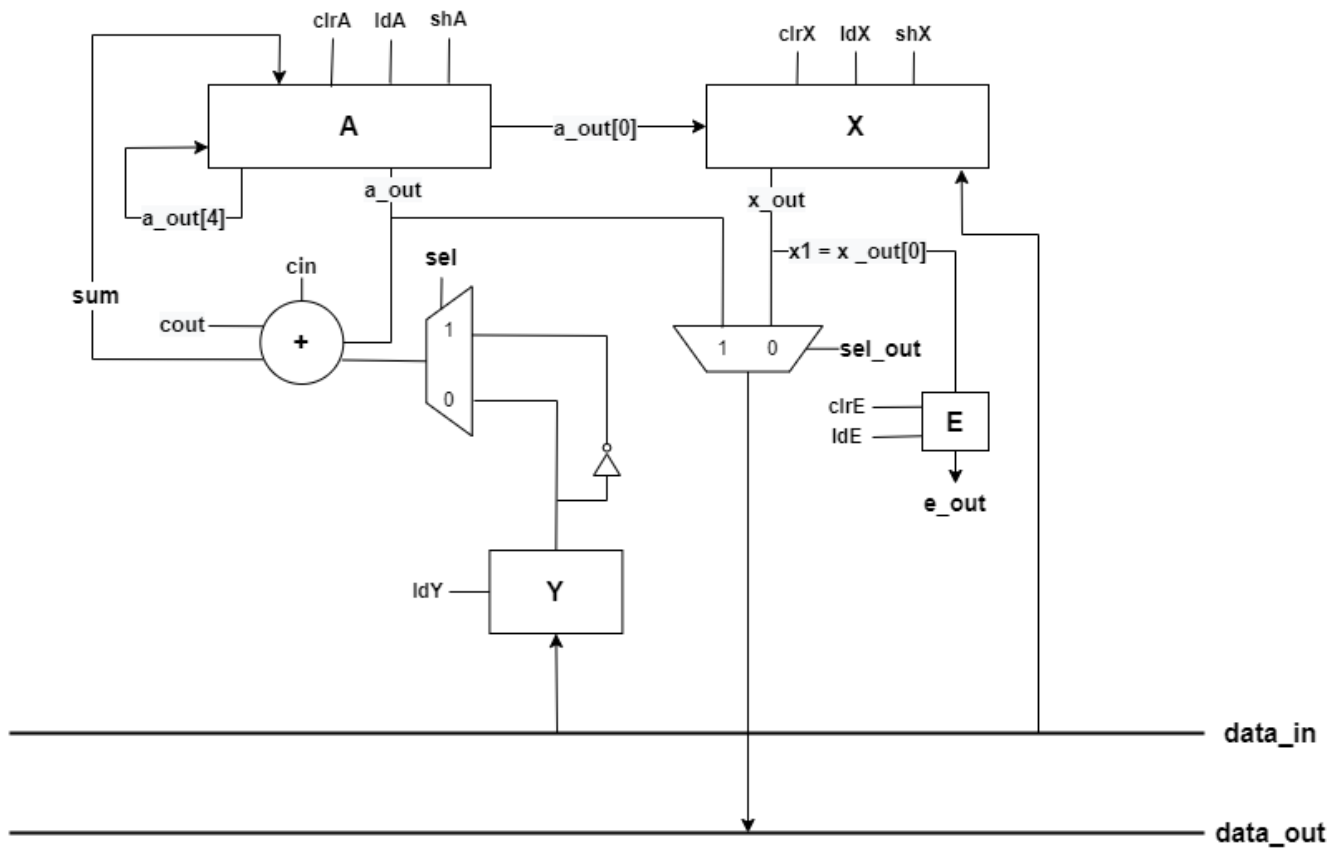
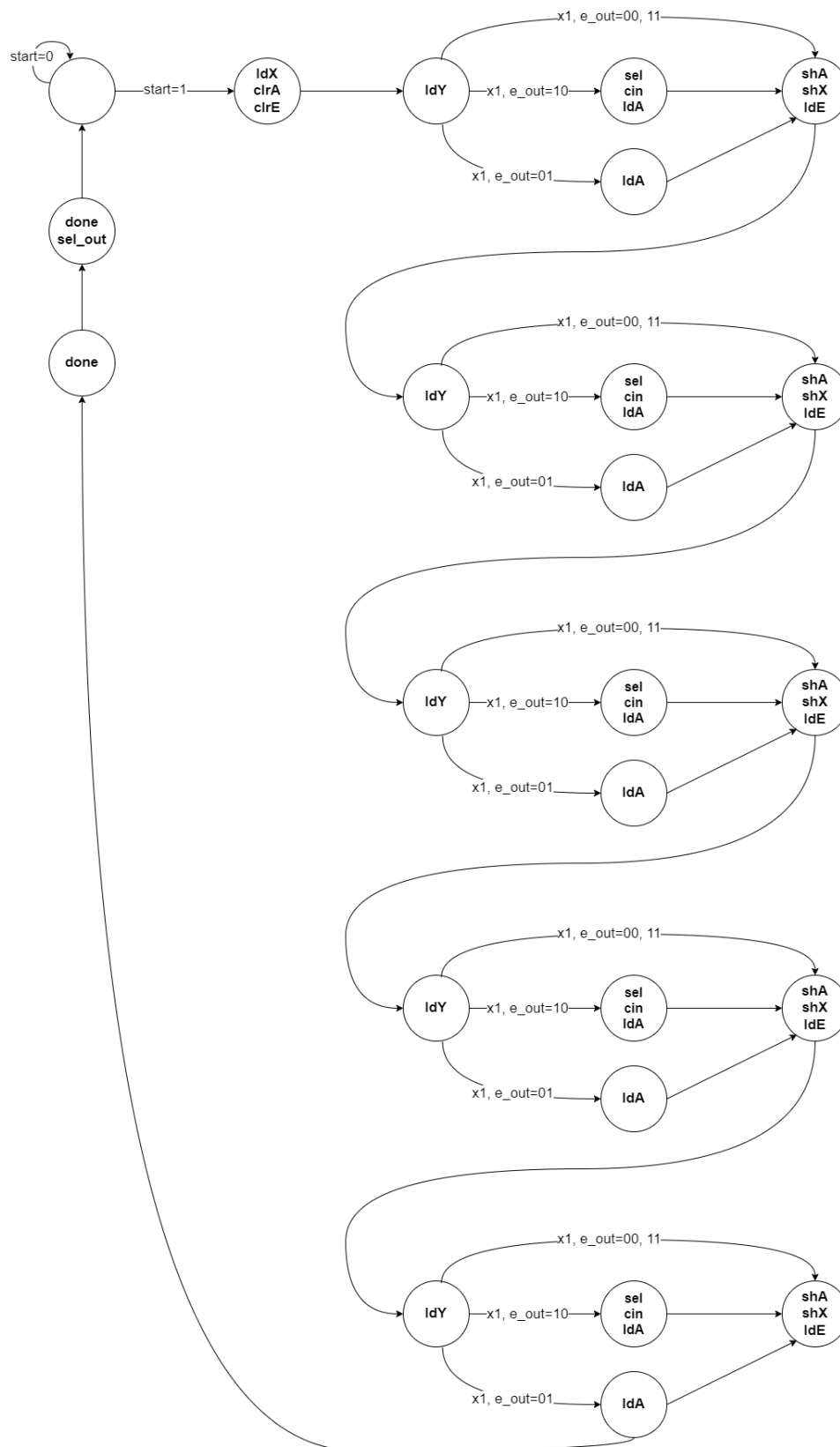


**Datapath:**

**Controller:**

### Simulation:

