Flowchart: checkpin()

```
                    ┌─────────────┐
                    │  checkpin() │
                    └─────────────┘
                           │
                           ▼
              ┌────────────────────────┐
              │  int pin, limit=3, c=0; │
              └────────────────────────┘
                           │
                           ▼
                   ◇ limit>=0 ◇ ──── No ────────────────┐
                      │                                  │
                      │ Yes                              │
                      ▼                                  │
              ╱ Display "Enter your pin" ╱               │
                      │                                  │
                      ▼                                  │
                 ╱ Read pin ╱                            │
                      │                                  │
                      ▼                                  │
              ◇ pin != pass ◇ ── No ── ╱ Display "Access │
                  │                        is granted." ╱ │
                  │ Yes                        │         │
                  ▼                            ▼         │
          ╱ Display Access is ╱           ┌──────┐       │
            denied. ╱                     │ c=1  │       │
                  │                       └──────┘       │
                  ▼                            │         ▼
        ╱ You have (limit0                     └──► ◇ c==1 ◇ ── Yes ──► ▐ services() ▌
          chance(s) left. ╱                        │
                  │                                │ No
                  ▼                                ▼
             ┌─────────┐              ╱ Display "Your card has been
             │ limit -- │               confiscated." ╱
             └─────────┘
```