BANK TELLER

START

input pin

input withdrawal amount

inputted pin matches user's pin?

— false → output error "incorrect pin"

true

withdrawal amount less than balance

— false → output error "insufficient funds"

END

```
                          ┌─────────────┐
                          │    START    │
                          └──────┬──────┘
                                 │
                          ╱──────────────╲
                         │ load people CSV │
                          ╲──────────────╱
                                 │
                          ┌─────────────┐
                          │ todayEpoch = │
                          │ today's date │
                          │  in epoch    │
                          └──────┬──────┘
                                 │
                          ┌─────────────┐
                          │peopleCounted │
                          │    = 0       │
                          └──────┬──────┘
                                 │
                          ┌─────────────┐
                          │  ageSum = 0  │
                          └──────┬──────┘
```

secondsInYear = 60*60*24*365

```
                          ◇ last person? ◇ ──false──> [birthdayEpoch = convert birthday to epoch] ──> [age = (todayEpoch - birthdayEpoc) * secondsInYear] ──> [ageSum += age] ──> [peopleCounted++]
                                 │
                          ┌─────────────┐
                          │ averageAge = │
                          │ floor(ageSum/│
                          │ peopleCounted)│
                          └──────┬──────┘
                                 │
                          ╱──────────────╲
                         │output peopleCounted│
                          ╲──────────────╱
                                 │
                          ╱──────────────╲
                         │ output averageAge │
                          ╲──────────────╱
                                 │
                          ┌─────────────┐
                          │     END     │
                          └─────────────┘
```

```
                    START

                      │
                      ▼
              ┌─────────────────┐
             /  get list of names from  /
            /        file              /
           └─────────────────┘
                      │
                      ▼
              ┌─────────────────┐
              │ longestName = first │
              │   name in list      │
              └─────────────────┘
                      │
                      │◄──────────────────────────────┐
                      ▼        ┌──false──┐             │
                   ◇         ◇                         │
              last name   false   name length >   true   longestName = name
              in list?  ────────►  longestName length ────►
                   ◇         ◇
                      │
                      ▼
              ┌─────────────────┐
             /  output longestName  /
            /                      /
           └─────────────────┘
                      │
                      ▼
                    END
```

START

handValue = 0

kinda

handValue >= 17

newCardValue = random number between 1 and 13

newCardValue >= 11 —false→ handValue += newCardValue

true

newCardValue = 11

END