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ALGO EXERCISE # 5.12

LE 5.12 **Passcode Lock**. Program that will ask the correct numeric passcode before the user can continue his task. The user is given only three trials to enter the correct passcode. When the user hits the correct passcode the program will display "**ACCESS GRANTED**", otherwise it will display "**ACCESS DENIED**" after three attempts.

START
1. ASSIGN variable
    a. INT passCode=123, attempt;
    b. INT x=3, y;
2. FOR (y=1; y<=x; y++)
    a. DISPLAY "Enter Password Attempt" (int attempt)
    b. GET int attempt
    2.1 IF (attempt==passCode)
    a. DISPLAY "ACCESS GRANTED"
    b. BREAK
    2.2 ELSE
    a. DISPLAY "ACCESS DENIED"
    2.3 IF (y==3)
    a. DISPLAY "YOU HAVE RUN OUT OF ATTEMPTS"
STOP

```
Start
  │
  ▼
INITIALIZE int
passCode, attempt,
x=3, y;
  │
  ▼
 ⊗ ◄──────────────────────────────────────────── INCREMENT++
  │                                                    y++
  ▼                                                     ▲
for                                                     │
(y=1; y<=x;  ──True──►  DISPLAY    ──►  if (attempt==  ──False──►  else  ──►  DISPLAY
y++)                    Enter Password       passCode)                        "ACCESS
  │                     Attempt                                               DENIED"
  │                                               │
  ▼                                             True
if (y==3)                                         │
  │                                               ▼
  │                                           DISPLAY
  ▼                                           "ACCESS
DISPLAY                                       GRANTED"
"YOU HAVE RUN                                     │
OUT OF ATTEMPTS"                                  │
  │                                               │
  ▼                                               │
End ◄─────────────────────────────────────────────┘
```