NAME: **DATE:**

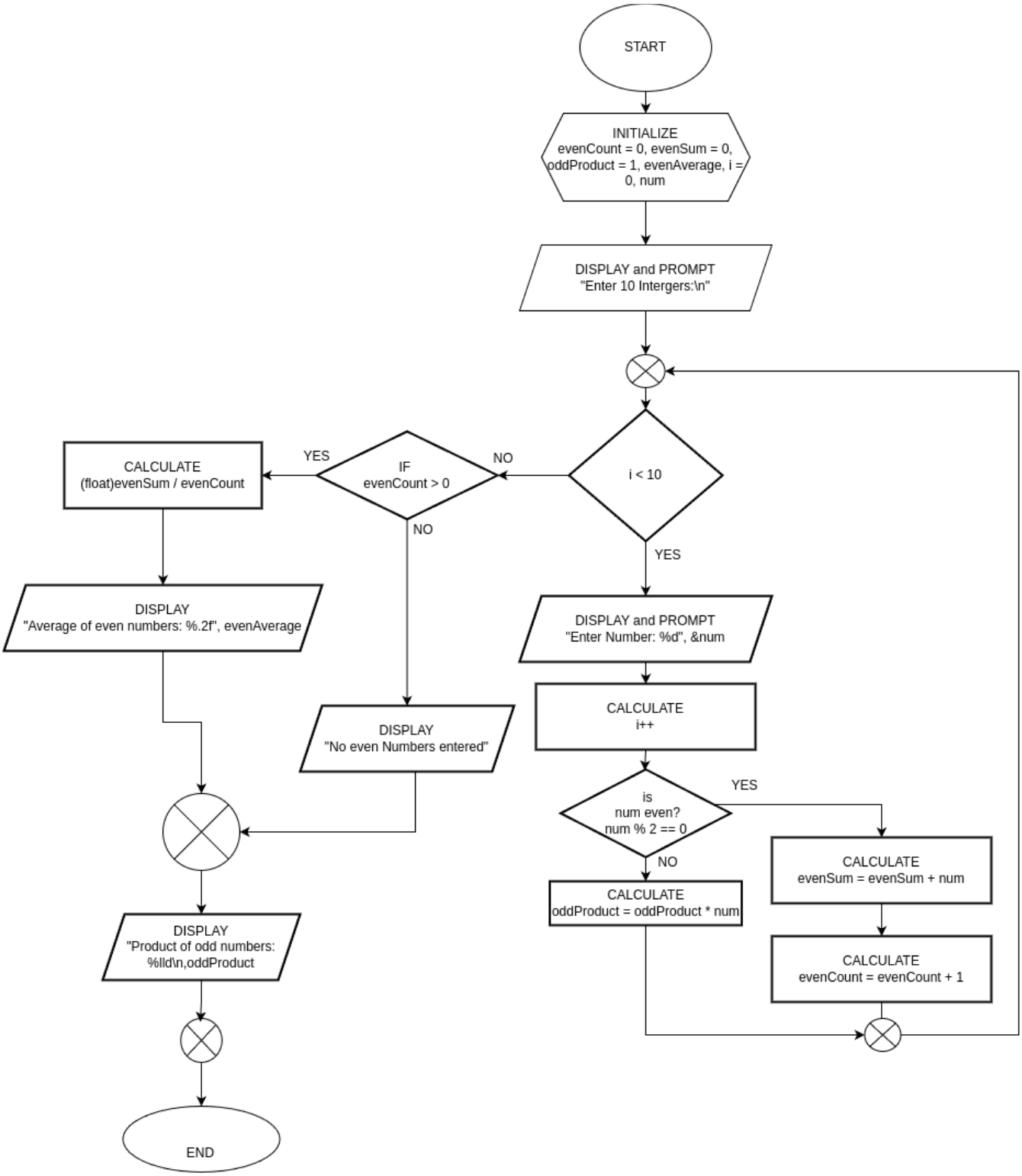
PRACTICE EXERCISE # 5

1. LE5_11.c

START

1. INITIALIZE evenCount = 0, evenSum = 0, oddProduct = 1, num, i, evenAverage
2. DISPLAY “Enter 10 Integers:”
3. FOR (i = 0; i < 10; i++)
   3.1 DISPLAY and PROMPT “Enter Number %d”, &num, i + 1
   3.2 IF number is even THEN
   3.2a CALCULATE evenSum = evenSum + num
   3.2b CALCULATE evenCount = evenCount + 1
   3.3 ELSE
   3.3a CALCULATE oddProduct = oddProduct * num
   3.4 ENDIF
4. ENDFOR
5. IF evenCount > 0 THEN
   5.1 CALCULATE evenAverage = evenSum / evenCount
   5.2 DISPLAY “Average of even numbers:, evenAverage
   5.3 ELSE
   5.3a DISPLAY “No even numbers entered.”
6. DISPLAY “Product of odd numbers: “, oddProduct
7. ENDIF

END / STOP

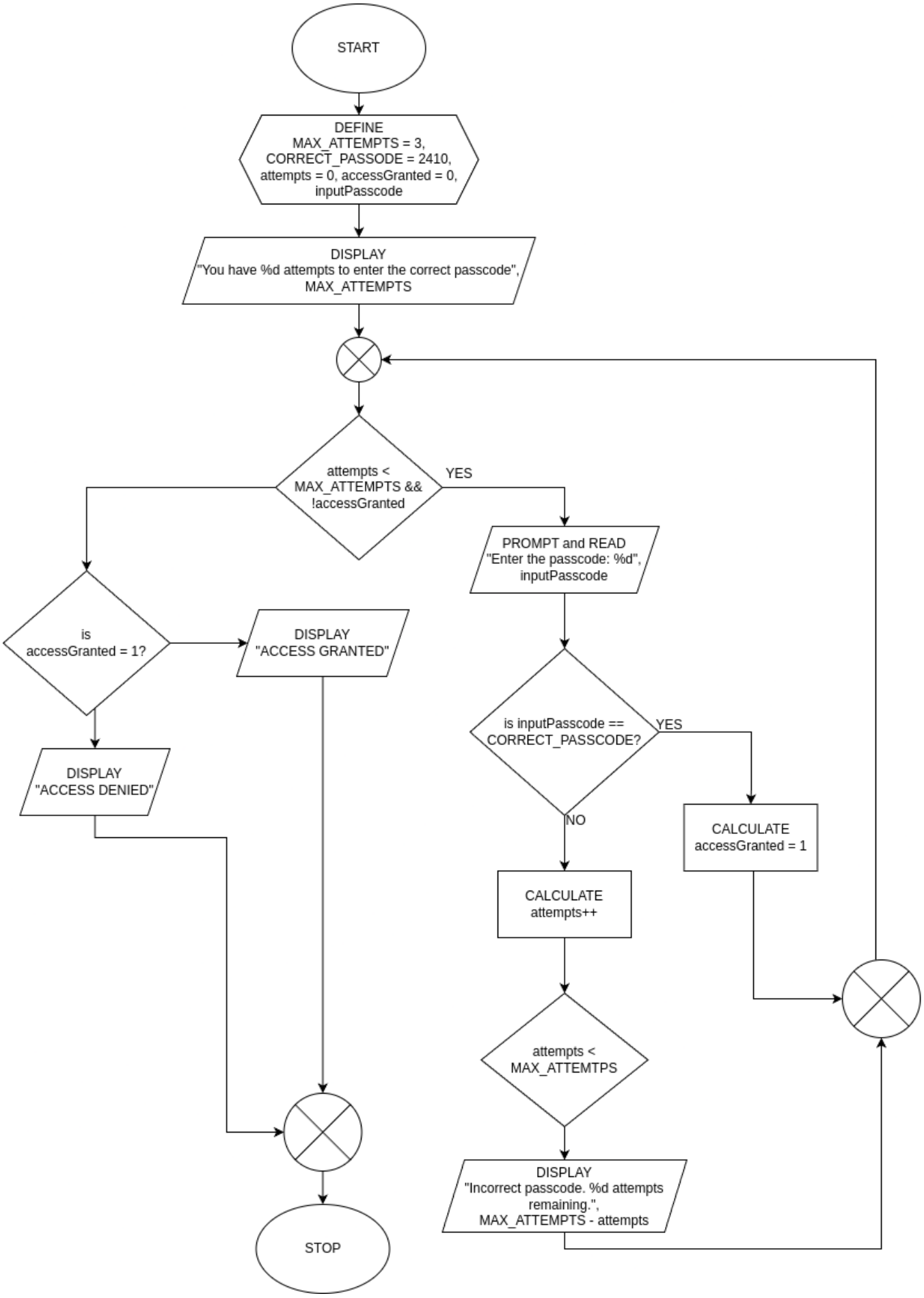

START
INITIALIZE
evenCount = 0, evenSum = 0,
oddProduct = 1, evenAverage, i =
0, num
DISPLAY and PROMPT
"Enter 10 Intergers:\n"
i < 10
YES
NO
IF
evenCount > 0
YES
NO
CALCULATE
(float)evenSum / evenCount
DISPLAY
"Average of even numbers: %.2f", evenAverage
DISPLAY
"No even Numbers entered"
DISPLAY and PROMPT
"Enter Number: %d", &num
CALCULATE
i++
is
num even?
num % 2 == 0
YES
NO
CALCULATE
evenSum = evenSum + num
CALCULATE
oddProduct = oddProduct * num
CALCULATE
evenCount = evenCount + 1
DISPLAY
"Product of odd numbers:
%lld\n,oddProduct
END

LE5_12.c

START

1. INITIALIZE MAX_ATTEMPTS = 3, CORRECT_PASSCODE = 2410, attempts = 0, accessGranted = 0, inputPasscode
2. DISPLAY “You have %d attempts to enter the passcode.”, MAX_ATTEMPTS
3. WHILE attempts < MAX_ATTEMPTS && !accessGranted
   3.1 PROMPT and READ “Enter passcode: “, %d, &inputPasscode
   3.2 IF inputPasscode == CORRECT_PASSCODE THEN
   3.3 accessGranted = 1
   3.4 ELSE
   3.5 attempts increment
   3.6 IF attempts < MAX_ATTEMPTS THEN
   3.7 DISPLAY “Incorrect passcode. %d attempts remaining, MAX_ATTEMPTS – attempts
4. ENDIF
5. ENDIF
6. ENDWHILE
7. IF accessGranted THEN
   7.1 DISPLAY “ACCESS GRANTED”
8. ELSE
   8.1 DISPLAY “ACCESS DENIED”
9. ENDIF

END / STOP


START
DEFINE
MAX_ATTEMPTS = 3,
CORRECT_PASSODE = 2410,
attempts = 0, accessGranted = 0,
inputPasscode
DISPLAY
"You have %d attempts to enter the correct passcode",
MAX_ATTEMPTS
attempts <
MAX_ATTEMPTS &&
!accessGranted
YES
PROMPT and READ
"Enter the passcode: %d",
inputPasscode
is inputPasscode ==
CORRECT_PASSCODE?
YES
NO
CALCULATE
accessGranted = 1
CALCULATE
attempts++
attempts <
MAX_ATTEMTPS
DISPLAY
"Incorrect passcode. %d attempts
remaining.",
MAX_ATTEMPTS - attempts
is
accessGranted = 1?
DISPLAY
"ACCESS GRANTED"
DISPLAY
"ACCESS DENIED"
STOP

LE5_13.c

START

1.

END / STOP