Quiz review

Started on	Friday, 23 February 2024, 11:33 PM
State	Finished
Completed on	Friday, 23 February 2024, 11:39 PM
Time taken	5 mins 50 secs
Marks	2.00/2.00
Grade	**100.00** out of 100.00

Question 1

Correct

Mark 1.00 out of 1.00

Select the appropriate code snippet for the given problem statement provided as pseudocode.

Problem Statement :

Strong number

Check if a given number is a strong number. 145 is a strong number because 1!+4!+5! = 145.

Sample Input :

145

Sample Output :

Strong number

Code:

BEGIN

DECLARE variables number, sum, temp, remainder, fact

READ number

SET sum=0, temp=number

_____

remainder = number % 10

SET fact = 1

FOR i IN 1 to remainder DO

fact = fact *i

END FOR

sum = sum+ fact

number = number / 10

```
END WHILE
IF sum==temp THEN
PRINT "Strong number"
ELSE
PRINT "Not a Strong number"
END IF
END
```


a. WHILE number < 0

b. WHILE number != 0 ✔

c. WHILE number == 0

d. WHILE number <= 0

Your answer is correct.

The correct answer is:
WHILE number != 0

Question 2

Correct

Mark 1.00 out of 1.00

Choose the pseudocode for the below problem statement.

Problem Statement :

Vehicle Registration

Mr.William buys a new Audi car. During the vehicle registration, he desires a fancy number in such a way that both the number and its reverse are the same.

Generate an algorithm to find that fancy number.

Sample Input :

1221

Sample Output :

Number is Fancy

a.

```
BEGIN
DECLARE  variables number, reverse, rem, temp
READ number
SET reverse = 0, temp = number
WHILE number !=0 DO
number = number/10
rem = number%10
reverse = reverse*10 + rem
END WHILE
IF temp == reverse THEN
```

```
PRINT "Number is Fancy"
ELSE
PRINT "Number is Not Fancy"
END IF
END
```

b. ✔

```
BEGIN
DECLARE  variables number, reverse, rem, temp
READ number
SET reverse = 0, temp = number
WHILE number !=0 DO
rem = number%10
reverse = reverse*10 + rem
number = number/10
END WHILE
IF temp == reverse THEN
PRINT "Number is Fancy"
ELSE
PRINT "Number is Not Fancy"
END IF
END
```


c.

```
BEGIN
```

```
DECLARE  variables number, reverse, rem, temp
READ number
WHILE number !=0 DO
SET reverse = 0, temp = number
rem = number%10
reverse = reverse*10 + rem
number = number/10
 END WHILE
IF temp == reverse THEN
PRINT "Number is Fancy"
ELSE
PRINT "Number is Not Fancy"
END IF
END
```


d.

```
BEGIN
DECLARE  variables number, reverse, rem, temp
READ number
SET reverse = 0, temp = number
WHILE number !=0 DO
rem = number%10
reverse = reverse*10 + rem
```

number = number/10

END WHILE

IF temp == reverse THEN

PRINT "Number is Not Fancy"

ELSE

PRINT "Number is Fancy"

END IF

END

Your answer is correct.

The correct answer is:

BEGIN

DECLARE variables number, reverse, rem, temp

READ number

SET reverse = 0, temp = number

WHILE number !=0 DO

rem = number%10

reverse = reverse*10 + rem

number = number/10

END WHILE

IF temp == reverse THEN

```
PRINT "Number is Fancy"
ELSE
PRINT "Number is Not Fancy"
END IF
END
```

◄ Palindrome problem

Jump to...

Check Your Understanding ►