



Assignment: Find the order

Mary is good in mathematics. She is always playful and has a good memory. When her friend Pinky tells n numbers, she has a habit of telling all those numbers in the reverse order of what she told. Please help her friend to find if the order in which Mary says are correct or not.

Write a pseudo code for the same.

Sample Input 1:

Enter the value of n

5

Numbers said by Pinky

12

78

34

21

56

Numbers said by Mary

56

21

34

78

12



Sample Output 1:

Yes, it is in reverse order

Sample Input 2 :

Enter the value of n

4

Numbers said by Pinky

26

41

55

67

Numbers said by Mary

67

55

26

41

Sample Output 2 :

No, it is not in reverse order

Explanation :

To store the value of n, numbers given by Pinky and Mary declare the variables n, a[50], b[50]

Also to check if the numbers told by Mary is in reverse order, declare a flag variable

DECLARE variables n, a[50], b[50], k, flag



Get the value of n

```
PRINT "Enter the value of n"
READ n
```

Get the numbers said by Pinky and Mary and store in array a and b

```
PRINT "Numbers said by Pinky"
FOR i IN 0 to n-1 DO
  READ a[i]
END FOR
PRINT "Numbers said by Mary"
FOR i IN 0 to n-1 DO
  READ b[i]
END FOR
```

Now to compare the numbers of Pinky and Mary, traverse array 'a' from 0 to n-1 and traverse b array from n-1 to 0 and compare

```
SET k=n-1, flag=0           -----> k to traverse 'b' array and flag to check if there is mismatch in order of numbers

FOR j IN 0 to n-1 DO       -----> index j is to traverse 'a' array
  IF a[j]==b[k] THEN       -----> compare jth element of a with kth element of b
    k=k-1                 -----> If equal then to compare the next element we do k=k-1
  ELSE                   -----> If not equal then order is incorrect. So change flag and break
    flag=1
    BREAK
  END IF
END FOR
```

If there has been a mismatch, value of flag would have changed to 1. Hence



```
IF flag==0 THEN  
  PRINT "Yes, it is in reverse order"  
ELSE  
  PRINT "No, it is not in reverse order"  
END IF
```

Submission status

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Online text

BEGIN

DECLARE variables n , $a[50]$, $b[50]$, k , $flag$

PRINT "Enter the value of n "

READ n

PRINT "Numbers said by Pinky"

FOR i IN 0 to $n-1$ DO

READ $a[i]$

END FOR

PRINT "Numbers said by Mary"

FOR i IN 0 to $n-1$ DO

READ $b[i]$

END FOR

SET $k=n-1$, $flag=0$

FOR j IN 0 to $n-1$ DO

IF $a[j]==b[k]$ THEN

$k=k-1$

ELSE

$flag=1$

BREAK

END IF

END FOR

IF $flag==0$ THEN

PRINT "Yes, it is in reverse order"

ELSE

PRINT "No, it is not in reverse order"

END IF



END**Submission
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