

Day 47 coding Statement : Write Program to find longest palindrome in an array

### Description

Get an array as the input from the user and find the longest palindrome in that array.

### Input

Enter the size of array

3

Enter the elements of array

121 10456 1000001

### Output

1000001

Code:

```
def check(n):
    div = 1
    while (int(n / div) >= 10):
        div *= 10
    while (n != 0):
        front = int(n / div)
        rear = n % 10
        if (front != rear):
            return False
        n = int((n % div) / 10)
        div = int(div / 100)
    return True
def largestPal(arr, n):
    result = -1
    for i in range(0, n, 1):
        if (arr[i] > result and check(arr[i])):
            result = arr[i]
    return result

n = int(input("Enter size of array: "))
arr = []
print("Enter array elements: ")
for i in range(0,n):
    temp = int(input())
    arr.append(temp)
print("Longest Palindrome: ",largestPal(arr, n))
```

Output:

Enter size of array: 3

Enter array elements:

121  
23456  
100001  
Longest Palindrome: 100001