



**NATIONAL UNIVERSITY
OF COMPUTER & EMERGING SCIENCES
LAHORE**



Course Data Structures Answer Sheet No. 1116

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Roll No. 181-1093 Section A Date 26-02-2020

Q # 1

$$T(n) = C + C + (n+1)(100)(n) \frac{1}{2} + C + C + C$$

$$T(n) = 5C + n(n+1) \frac{1}{2}$$

$$T(n) = \frac{1}{2}n(n+1)$$

$$T(n) = O(n^2) \Rightarrow \frac{1}{2}n(n+1)$$

Q # 2

Pseudocode :

bool CheckReverse (1st string, 2nd string)
| Create new stack

loop (!string NULL) {
 read Pop 1st string element
 Push that PoPed element
 in new stack

// In this Case 1st string

Q / Part No.

Q / Part

are in reverse
zoom in new stack

while (!stack empty) {

{
 Char a = Pop 2nd string element
 Char b = Pop new created stack
 stack element

} if (a == b)

 Count++;

}

} after that

loop (string != null & !s)

 size++;

} if (count == size)

 return true;

} else {

 return false;

}

Q # 3

```

bool ChangeHead ( int Pos ) {
    For ( int i=0; i<(Pos-1) i++ ) {
        Node * temp;
        temp = head;
        End;
        Node * Pre_End;
        while ( temp->next != nullPto )
            temp = temp->next;
    }
}

```

~~End = temp; temp = head;~~
~~while (temp->next->next != nullPto)~~

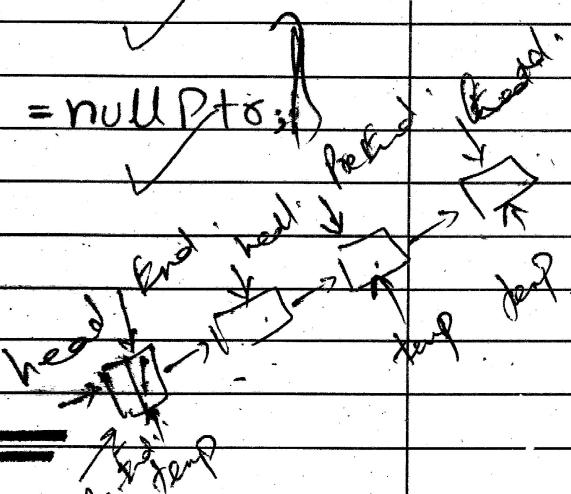
~~temp = temp->next;~~ ✓

~~Pre_End = temp;~~ ✓

~~End->next = head;~~ ✓

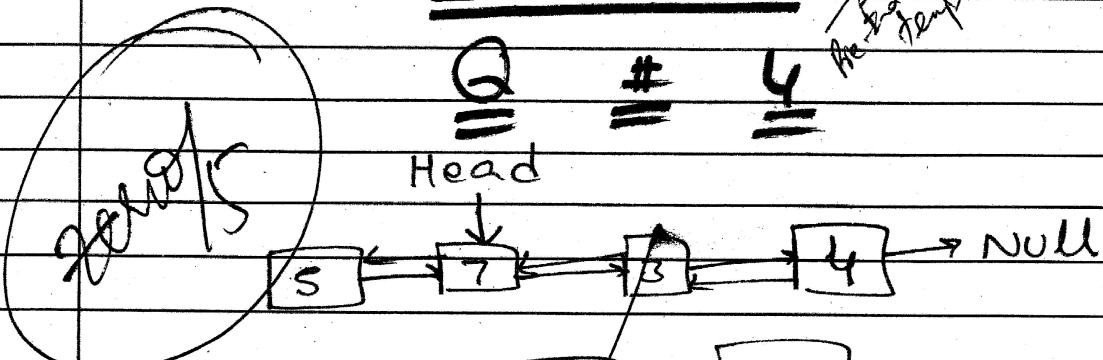
~~Pre_End->next = nullPto;~~ ✓

~~head = End;~~ ✓



≡ ≡ ≡

Head



temp = [3] → 4

head = → 7