NATIONAL UNIVERSITY
OF COMPUTER & EMERGING SCIENCES
LAHORE

Course Data Structures Answer Sheet No. 45205

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Q2) class stack

```
{
    char A[10];
    int size;
    int top;
    public:
    stack()
    {
        top = -1;
        size = 10;
    }
    void push(char a)
    {
        if( top < size-1)
            top++;
            a = A[top];
        else return false;
    }
    bool POP()
    {
        char b;
        if (top > -1)
            b = A[top]
            TOP--;
        else return true;
        else
            return false;
    }
```

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zero/5

Q / Part No.

Wrong / Part No

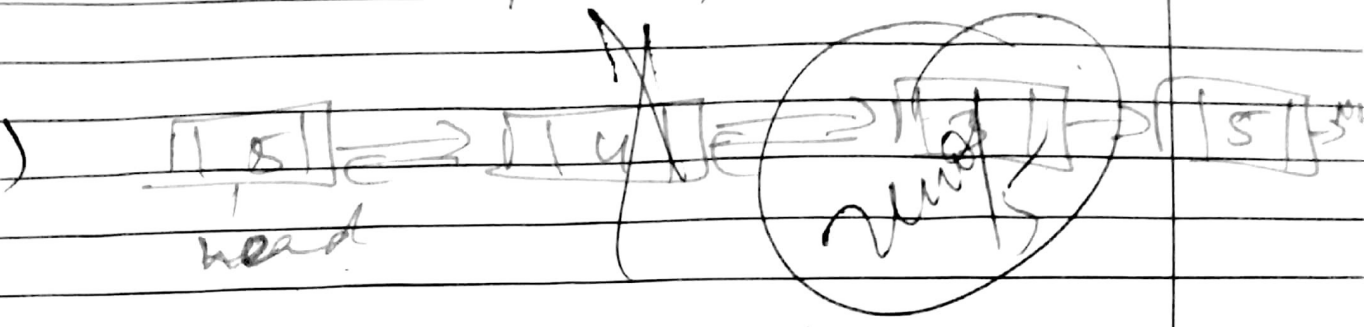
```
bool top()
{ return a[top];
}
// Similary another 2 stacks are used
bool convert (string, string2)

bool reverse (char * s1, char * s2)
{ int j=0;
  char * buffer = new char[strlen(s1)+1];
  int i=0;
  stack a;
  stack t;
while (i != NULL)
{ push
  buffer[j] = s1[i];
    j++;
    i++;
}
int j=0;
while( buffer[j] != NULL)
    j++;

bool reverse (char * s2, char * s1)
{ int i=0;      bool flag=true;
  int j=0;
  int top1;
  s1.top=0;
  int top2=0;
if ( s1.top1 == s2.top2 )
{ top1++;
  top2--;
if (flag)
{ return true;
else
{ return false;
}
```

else
return false;

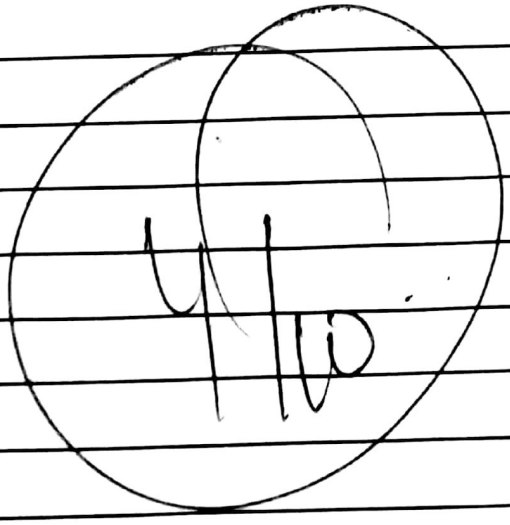
Q2)



Q3)

```
changehead (int pos)
node *p = head;
node *q = NULL;
while (p->next != NULL)
    { p = p->next;
    }
p = head;
while (p != pos)
    { p = p->next;
    }
while (p->next != NULL)
p q = p->next
    p->data = q->data;
    head->data = head->next->data
```

while (head != pos)
head->data



Q / Part No.

Q1)

$T(n)$
$T(n)$
$2(O(n^2))$

✓

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