Q:1 (a) deletion from circular queue code

(b) inserting in circular queue code

Q:2

(a) A + (B+D)/E - F * (G+H/K)

(b) 12, 7, 3, -, /, 2, 1, 5, +, *, +)

symbol	stack	postfix
12	-	12
7	-	12 7
3	-	12 7 3
-	-	12 7 - 3
/		12 / 4
2		3 2
1		3 2 1
5		3 2 1 5
+		3 2 1 + 5
*		3 2 × 6
+		3 + 12
		15

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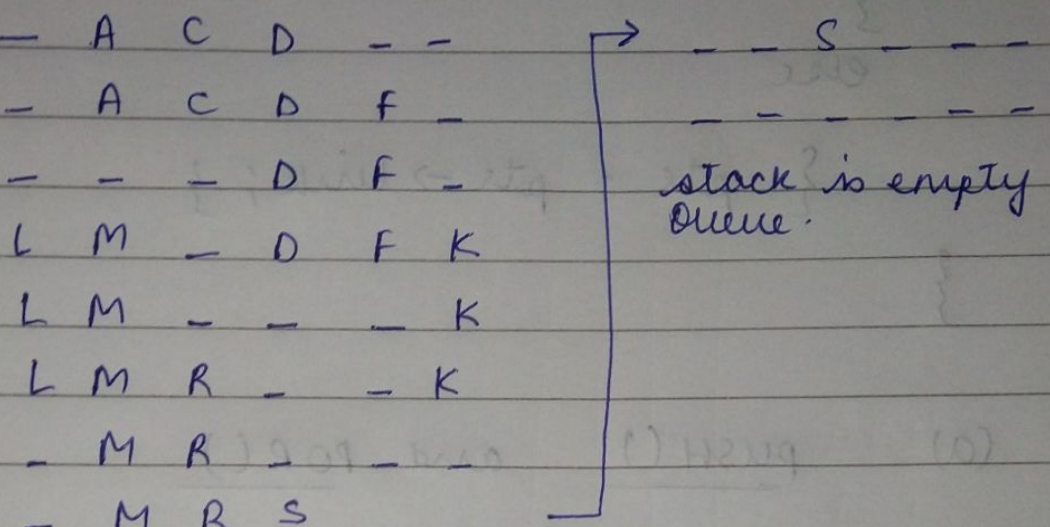
Q:3 (a)



(b) reversing a linked list code.

Q:4

(a)
```
void count_no_of_nodes()
{ ptr = start ; int count ;
  for ( ptr = start ; ptr -> link != null ;
        ptr = ptr -> link )
    { (count ++); }
  printf (" No. of nodes are : %d ", count );
}
```

(b) deleting first node code.

```
node * delete = deletednode ;
while (ptr -> link != NULL)
  { if (ptr -> link == NULL)
```

```
{   ptr -> link = delete ;
    delete -> link = NULL;
}
else
   { ptr = ptr -> link; }
}
```

Q:5

(a) PUSH() and POP()

(b) delete - particular - value.

(c) algorithm to sort linked list.