9/11/20 IBM19ET014 DEEPTHI.L DS LAB TEST

papergrid

Date: / /

Algorithm:

1. void merge (int q1[ ], char q2[ ])

1.a check if rear3 not equal to 5,
1.a.1 if rear3 doesn't point to 5,
1.a.2 merge the first queue to q3 in even indices
1.a.3 merge the second queue to q3 in odd indices

1.b otherwise, if rear3 == 5,

1.b.1 merge q2 elements to q3

1.c Repeat process 1.a to 1.b till ~~digit~~ rear3 is size3 - 1.

2. void display()

2.a run a loop from front till rear

2.b display the contents of the queue3.

3 int main()

3.a declare 2 arrays, one of int & other of character type.

3.b Call the function merge by sending 2 arrays as parameters.

3.c Call the display ~~program~~ func.

3.d Terminate.

Algorithm

1) void merge (int q1[], char q2[])
{
if (rear3 == size3 - 1)
printf ("Queue Full \n");
return;
}

else { rear1++; rear2++; rear3++;
if (rear3 != 5)
{
if (rear3-1.2 == 0)
q3[rear3] = q1[rear1];
else
q3[rear3] = q2[rear2];
}
else {
q3[rear3] = q2[rear2]
rear3++;
rear2++;
}