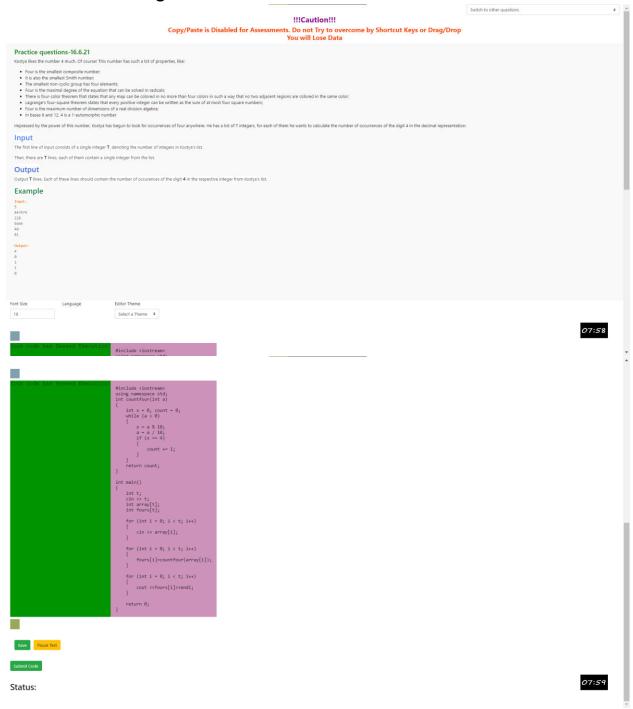
BIMAL PARAJULI (20BDS0405)

Practice problem 16th June, 2021

Problem 1: Counting 4s in a number:

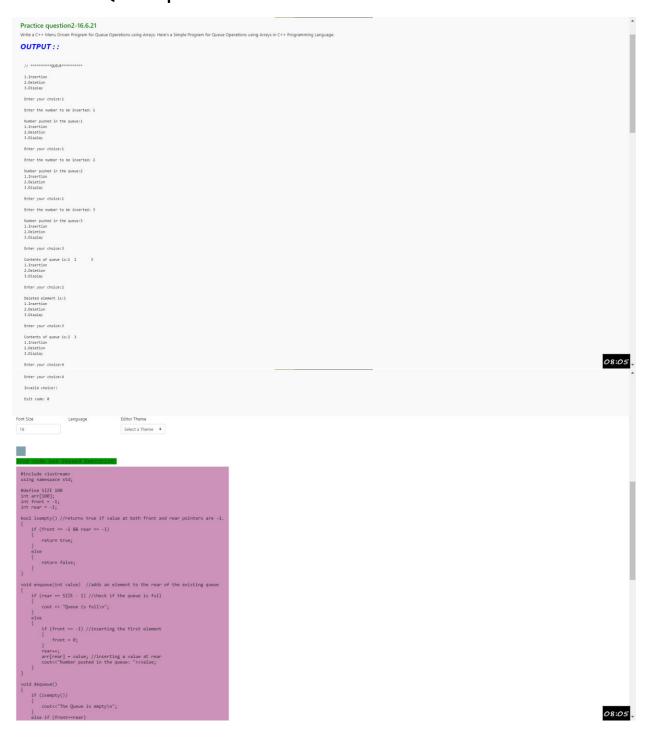


Problem 2: Merge Sort Problem:

```
Practice questions-16.6.21
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18 Select a Theme #
                                               // Merges two subarrays of arr[].
// First subarray is arr[1.m]
// Second subarray is arr[m+1..r]
void merge(int arr[], int 1, int m, int r)
                                                  /* create temp arrays */
int L[n1], R[n2];
                                                  08:01
                                                  merge(arr, 1, m, r);
}
                                               /* Driver code */
int main()
                                                  int size;
cin >> size;
int arm[size];
for (int i=0;i<size;i++) {
    ctn >> arm[i];
}
mergeSort(arr, 0, size - 1);
printArray(arr, size);
return 0;
  Save Pause Test
                                                                                                                                                                                                                                                                08:02
```

Problem 3: Queue operations:



```
else if (front=rear)
{
    front=rear=-1;
    }
    else
{
    cut<<"Deleted element is : "<<arr[front];
    }
}</pre>
 void displayqueue()
      if (isempty())

if (isempty())

if (isempty())

coute<"Empty Queue";

lise

for(int i=front; i<=rear; i++)

coute<arr[i]<c="";

}
   int main()
         int value, operation;
bool check-true;
cout<<"Enter your choice: ";
cin>>operation;
while(check)
             if(operation==1) {
                    cin>>value;
enqueue(value);
           else if (operation--2)
{
    dequeue();
}
      dequeue();
else if (operation=3)
{
   cout<<The contents of the queue is: ";
   displayqueue();
}
else
else
{
   cout<<Tnvalid Choice";
   check-false;
}</pre>
```

Save Pause Test

Submit Code

Status:

08:07

08:08