Question3)

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```c
#include<stdio.h>
# define size1 3
# define size2 6
# define size3 9
void merge(char q1[],char q2[])
{
    int rear1=0,rear2=0,rear3=0,front3=0;
    char q3[size3];
    if(rear3==size3-1)
    {
        printf("QUEUE FULL \n");
        return;
    }
    for(int i=0;i<size3;i++)
    {

        if(rear3%2==0)
        {
            if(i>=5){
         q3[rear3]=q2[rear2];
        rear3++;
        rear2++;
            }
        q3[rear3]=q1[rear1];
        rear3++;
        rear1++;
        }
        else
        {
        if(i>=5){
```

```c
        if(i>=5){
        q3[rear3]=q2[rear2];
        rear3++;
        rear2++;
            }
        q3[rear3]=q2[rear2];
        rear3++;
        rear2++;
        }
    }
    printf("contents of the queue  after merging \n");
    for(int i=front3;i<=size3;i++)
    printf("%c \n",q3[i]);
}
int main()
{
    char q1[]={'3','6','8'};
    char q2[]={'b','y','u','t','r','o'};
    merge(q1,q2);
    return 0;
}
```