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MutiplePriorQ.c ♠
\leftarrow
#include<stdio.h>
#define N 3
int queue[3][N];
int front[3]={0,0,0};
int rear[3]={-1,-1,-1};
int item,pr;
pqinsert(int pr)
       if(rear[pr]==N-1)
    printf("\n Queue overflow\n");
        {
              printf("\nEnter the item\n");
scanf("%d",&item);
rear[pr]++;
              queue[pr][rear[pr]]=item;
pqdelete()
        for(i=0;i<3;i++)
              if(rear[i]==front[i]-1)
    printf("\Queue empty\n");
                     printf("Deleted item is %d of queue %d\n",queue[i][front[i]],i+1);
front[i]++;
              }
display()
{
       int i,j;
for(i=0;i<3;i++)</pre>
              if(rear[i]==front[i]-1)
    printf("\Queue empty %d\n",i+1);
                     printf("\nQUEUE %d:",i+1);
for(j=front[i];j<=rear[i];j++)</pre>
                     printf("%d\t",queue[i][j]);
 void main()
       int ch;
while(1)
              printf("PRIORITY QUEUE\n");
printf("\n\t1:PQ Insert\n");
printf("\n\t2:PQ Delete\n");
printf("\n\t3:PQ Display\n");
printf("\n\t4:Exit\n");
printf("\nEnter the choice\n");
              printf("\nEnter
scanf("%d",&ch);
switch(ch)
              printf("\nEnter the priority number\n");
scanf("%d",&pr);
if(pr>0 && pr<4)</pre>
                    pqinsert(pr-1);
                     printf("\Ohly 3 priority exists 1 2 3\n");
                    pqdelete();
                   display();
                    exit(0);
```