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Lab program - 4
#in clude estation
#include < stdlib.h
# define SIZE 5
 int f=0, r=-1, ch;
 int item, 9[10];
 int is Full () &
    return (r== S12E-1)?1:0;
int is Empty () {
    return (f>r)? 1:0;
Void insert Recar() {
   if (is Full()) }
     Printy ("Queue o verflow");
    return;
  r+=1
 g[r] = item;
```

```
uoid insert Front () 9
        if (f!=0) {
          2 (f] = item;
     3 else if (f==068 r==-1) {
           9, [++ r] = item;
           return;
   3 else {
          Printf ("Insertion not possible \n");
Void delete Rear () {
     if (is Empty()) {
        printf ("Queue is empty");
         f=0;
       return;
 print f (" Item deleted is Y-d \m, q[r-]);
```

```
void delete Rear () 5
   if ( is Empty ()) {
           Printf ("Queue is empty");
          return;
   printf(" item is deleted is ".d\n", 9(f++));
void display () {
  if (is Empty()){
      printy [" Quee is emply ");
  for (i=f; i <= y; i++) {
 3 print t (" x.d ", 9 (i));
```

```
hold main () 9
    int flag = 1;
while (flag = = 1) {
     printf ("In 1. Insert Rear In 2. Insert Fronty
            3. Delete Rear In 4. Delete Front in 5. 2 solay
           In 6. Exit m");
   prints (" Enter chaice: ");
  & conf (" /.d", &ch);
  Switch (ch) 5
        cose 1: printf (" In enter the; tem ");
               Sconf ("1.d", & item);
              inscrt Rear();
      case 2: break;
            Printf a ("In enter the item");
            sconf (" /d", & item);
            insert Front ();
            lereak;
   case 8: delete Rear ();
          break;
 case 4: delete Front ();
          break;
```

case 5: display();
loneak;
default: exit(0);
3
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