Queue.

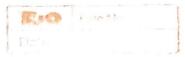
1 Worte a program to simulate the warking of the queue of integers yeing an among. Porovide the following operatione: Inscort, delete display. The porgonom should print appropriate meggage for overtion and underthow condition Word insente porint f ("In Enter the number to be ineconted into queue: ") sconf ("%d" from); if (meon = = MAx - 1). potentf ("In Overflow"); else if (foront == -1 lf neon == -1) foront = 0; mean + +; o [sieon] = num;

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vord delete co
  init val:
  if (foront == -1 | foront > mean)
  print f ("In undernf dow"):
  netuon -1:
 vol = 9 [foront]=
 forent ++;
 if (foront > orean)
netuon val;
```



Superior description of the superior of the su
rold deplayer
£ ,, ,
if (forent == -1)
posent f (" Empty Quevaln"):
edge
\$
point f ("Queue: In"):
for (int i = forant; i = slean; itt)
porintf (" /.d" 9 [i]);
3
ζ.
Output:
Menu
enter 1: to ingent Enter your choice:
entos: to delate Enter the number to ingert: 62
enter 3: to digplay Enter your choice:
enter 4: exist. Deleted exement ig: 62
Enter your choice: 3.
Enterment of queue: 42
edement of queve: 27
Enter your charce: A
cait

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2. Cloudon Queve
 and Po Fulles
   if (Foront = = orean +1) 11 (foront = = 0 &f mean = = size.
   Meduain 1:
Part le Emptyc) E.
 if (foron.t == -1)
  oletuan 1:
 Metumn O;
 vord enqueue (int element)
9f (19 Full ())
posint f ("In Queue se Full's;
if (foront = = -1)
 MEON = (MEON +1) % Size;
Pitema [near] - element;
parint f ("In Ingented > %d" element).
з.
```



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and dequevecs f.
 Int element;
 of ( Pe Empty (s) {
porint f (" Queue je Empty");
 netuon (-1);
 edement = 9 temp [forant];
 if Cforont = = oreon)
forent = -1:
 forant = (forant +1)./. size:
paraté ("In Deleted element -> 200 " elemenent).
metuoin (element);
4
<u>ų.</u>
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void displayer c
  Prit 9.
  Portant (" Empty Queve"):
  parint ("In Foront -> %d" foront);
  porint f ("In I temp -> ")-
  for (1=foront; 1= oreon; 1= (1+1) 1/512e) {
 porint (" xd", Pitemy [i];
 paratt (" 1.d" stemp [2]):
  portat f " In Rear > 1.d" near).
Output: ** Menu * **
       1. Ingernat
        3. Oigolay
      Entror your choice: 1
                               Enter your choice: 3
                                on underflow
       criter the element: 5
       Enter your choice:2
                                Enter your choice: 4
       deleted element 1.
```