```
LAB-6
 is tercular queve.
 #include estatio-h?
# include 2 stollab. h7
# obfine MAX 5
ind front = -1;
int rear = -1;
int queue [MAX];
void Enqueux (int);
int Dequeue(1)
void disflay ();
ant main
    int options;
    int item;
          paint (" Liscular duens \m");
          feutf ["In 1. Invert to down (Enduery)");
         ferit ("\m. delette from the dueus (Wedness)");
         feintf (" In Diflay the content ");
        frints [" \m 4. Exit \m");
       feartf l'Enter the option: ");
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Dranf ["-1.d", & oftion); switch (oftion) case 1: peintf ("Enter the element \m"); scarf ("-1-d", & item); Enque (=tem); break; Tem = Deque (1, if (item == -1) feitfl'alum is empty \n"); feint f l' Remove d'élement from the que 1 d', item); break; Case 3: display (); bruski cost n: exit (0); - Charl Janeur = mate g while (option != y); HOUR & FLORIDA LA return 0',

void Enque (int de) if ((202+1)-1. MAX == front) feint ["Dune is full \n"); mas = (near + 1) -1. MAX; queux £rier] = ele; If (flort = = -1) front = 0; Dequel). int ten; if ((frant == -1) && (ress == -1)) setuen - 1; item = quem [front]; front = (front +1) ·1. MAX; if (front > real) front = -1; return item;

vord display() if ((front = = 0) && (real ==-1)) feint [" duene is empty \n"); feintf (" \m dueur contents: "); 108 (i = frait; i = seas; i +4) 2 printf("'1.d.", queus [i]); eagle ded outflut. Circular duen 3 9 must to dueve (Engueral 2) delete from the dueue (Dequeue) 3. Display the Content Enter the option: 2

arailas duem 1. Invest to dueve (enduren) 2. Delete from the Queue (Degreen) 3. Difflay the contant n. Esit Many Land Bay Bay Enter the option: 1 Enter the element Children was a Mark Circular Dun. 1. Arreit to duce (Englise) 2. delite from the dum (Dedum) 3. Disfley the content n. enit. Enter the often; 4 11434130 203,000 1943) 9334 B

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Priority Lucu.
# undude extelio. his
Hundude z stallib.h
# define N 3
int queue [3] [N];
int front [3] = {0,9,0};
int sear [3] = {-1, -1, -1};
ant item, pr;
word pg invest (int pr)
    if ( real [ p2] == N-1)
      frist ["In Due overflow \m");
       peintfl"\mente the item \n");
       Dranf ("I-d", & item);
        queux [pa] [real cpa]]: item;
       py delete (1)
                    · : 6.1. 803 196 m/
    for(i=0;i<3;i+4)
```

if (2009[2] -= front(2)-1) trust [" (m quae 1. d entry "", 2+1); printf ("I'm deleted item is I'd of guesse I'd) questi] [trusting void display!) for(i=0; i < 3; i++) if (real [i] == front [i] -1) pariet [" In ques 1. de empty \", 2+1); pentf[" \m QUEUE -1.d: ",)+1); for (j = front[i]; j c = rear [i]; j+1) print [1.1. dit", quem [i] { [i])

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int main () while (1) fæintf ("Int 1: PRanset In"); printf ("In 1 + 2: Poldelete In"); drivit (" Int 3: PQ display In"); frint [" \m \ + 4: Exit \ \"); print [" an enter the choice an"); Manf [" Ad", &ch); switch (ch) core! ! faintf l' (m enter the priority number (m'); slauf ("-/.d", & pr); of (p270 & p2 × 4). pg insa (pr-1); feit [" \ monly 3 priority exists (23\n"); Cox 2: Prodelitet ();

Carx 3: disflay (); break 1 lare 4: exit (6); return 0; Experted Octfut. "(" m/ + 10 + 10 10 9 " c + / m/ 19 1 | beaut 1: PRimet 2° PRdelete 3: Pa disflay Carlina Late And Maria 4: Exit (133 1 13 7 13 Justa enter the chaice enter the priority number enter the item 1: Plimet 2'. Padelete 3: Padisplay

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enter the choice enter the priority mumber enter the item 1: PQ: meet 2: Padelete 3'-Padisflay 4: Exit enter the choice QUEUE 1:67 QUEUE 2: 45 queur 3 empty 1: PQ insit 2: PQ delete 3: Phdisplay 4: buil ente the choice deleted item is 67 of queue 1

1. 10 arrest 2º, Pa delite 3. Radi Alay a: Ent enter the doile