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C: > Users > Dell > Desktop > Go > C exp2dsa.c > 分 display()
 1 // Implementation of Queue using Array
     #include<stdio.h>
     int Q[100], FRONT = -1, REAR = -1, i, n, x, choice;
      void insert();
      void delete();
      void display();
      void main() {
          printf("Welcome to Implementation of Queue using Array !");
          printf("\n Enter the size of Queue (Maximum size = 100): ");
           scanf("%d",&n);
              printf("\n Queue Operation available: ");
               printf("\n \t1. Insert \t2. Delete \t3. Display \t4. Exit ");
              printf("\n Enter your choice: ");
              scanf("%d",&choice);
               switch (choice) {
                   case 1:
                   insert();
                  break;
                  case 2:
                  delete();
                  break;
                  case 3:
                  display();
                  break;
                  printf("\nProgram Finished !");
                  default:
                   printf("\n Please enter a valid choice (1, 2, 3, 4)");
                   break;
           } while(choice != 4);
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void insert() {
          if (REAR >= n - 1) {
              printf("\n Queue Overflow");
          else {
              printf("\n Enter the element to insert: ");
              scanf("%d",&x);
              REAR++;
              Q[REAR] = x;
              if (FRONT == -1) {
                  FRONT = 0;
      void delete() {
          if (FRONT == -1) {
              printf("\n Queue is underflow");
              printf("\n The deleted element is : %d", Q[FRONT]);
              if (FRONT == REAR) {
                  FRONT = REAR = -1;
                  FRONT++;
     // Function to display queue
     void display() {
         if (REAR < 0) {
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              printf("\n Queue is empty");
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         else {
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74
              printf("\n The elements in the queue are: \n");
              for (i = FRONT; i < n; i++) {
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                  printf(" %d \n",Q[i]);
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78
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```
Welcome to Implementation of Queue using Array!
Enter the size of Queue (Maximum size = 100): 3
Queue Operation available:
      1. Insert 2. Delete 3. Display 4. Exit
 Enter your choice: 1
 Enter the element to insert: 1
 Queue Operation available:
      1. Insert 2. Delete 3. Display 4. Exit
 Enter your choice: 1
 Enter the element to insert: 2
 Queue Operation available:
      1. Insert 2. Delete 3. Display 4. Exit
 Enter your choice: 1
 Enter the element to insert: 3
 Queue Operation available:
      1. Insert 2. Delete 3. Display 4. Exit
 Enter your choice: 3
 The elements in the queue are:
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Queue Operation available:
      1. Insert 2. Delete 3. Display
                                                4. Exit
Enter your choice: 2
 The deleted element is: 1
 Queue Operation available:

    Insert
    Delete
    Display

                                               4. Exit
 Enter your choice: 2
 The deleted element is: 2
 Queue Operation available:
                 2. Delete 3. Display 4. Exit
       1. Insert
 Enter your choice: 3
The elements in the queue are:
Queue Operation available:
      1. Insert
                  2. Delete 3. Display 4. Exit
Enter your choice: 4
Program Finished!
```