```
//Queue
# include <stdio.h>
# include <conio.h>
# define SIZE 10
int front=-1, rear=-1;
int queue[SIZE];
void main()
int choice;
void insert();
void delet();
void display();
void search();
void update();
do
 clrscr();
 printf("\n\t1. Insert");
 printf("\n\t2. Delete");
 printf("\n\t3. Display");
 printf("\n\t4. Search");
 printf("\n\t5. Update");
 printf("\n\t0. Exit");
 printf("\n\tEnter your choice : ");
 scanf("%d", &choice);
 switch(choice)
 case 1:
  insert();
  break;
  case 2:
  delet();
  break;
  case 3:
  display();
  break;
  case 4:
  search();
  break;
  case 5:
  update();
  break;
  case 0:
 printf("\n\tEnd of Program");
  break;
```

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default:
 printf("\n\tInvalid Choice");
  break;
 getch();
while(choice != 0);
void insert()
if(rear == SIZE-1)
 printf("\n\tQueue is full / Overflow");
else
 rear++;
 printf("\n\tEnter any number : ");
 scanf("%d", &queue[rear]);
 if(front == -1)
 front = 0;
void delet()
if(front == -1)
    printf("\n\tQueue is Empty / Underflow");
else
printf("\n\tDelete Value = %d", queue[front]);
 if(front == rear)
 front = -1;
 rear = -1;
 else
 front++;
void display()
int a;
```

```
if(front == -1)
   printf("\n\tQueue is Empty or Underflow");
else
 for(a=front;a<=rear;a++)
 printf("\n\t%d", queue[a]);
void search()
int a, sv;
if(front == -1)
   printf("\n\tQueue is Empty or Underflow");
else
 printf("\n\tEnter Search Value : ");
 scanf("%d", &sv);
 for(a=front;a<=rear;a++)
 if(queue[a] == sv)
printf("\n\tSearch value %d is found on position %d",
   sv, a-front+1);
  break;
 if(a == rear+1)
printf("\n\tSearch value %d does not exists", sv);
void update()
int a, val;
if(front == -1)
   printf("\n\tQueue is Empty / Underflow");
else
 printf("\n\tEnter value to Update : ");
 scanf("%d", &val);
 for(a=front;a<=rear;a++)
```

```
if(queue[a] == val)
 printf("\n\tOld Value : %d", queue[a]);
 printf("\n\tEnter New Value : ");
 scanf("%d", &queue[a]);
   printf("\n\tValue updated successfully.");
  break;
 if(a == rear + 1)
printf("\n\tValue %d does not exists", val);
Write a C program to perform all operation of queue
on following array of structure:
struct Player
 int code;
 char name[10], city[10];
};
*/
```