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# Queue Implementation

Code Id	34
Date Updated	3/7/2010
Title	Queue implementation
Description	

Program to implement simple queue using array.

## Codes Snippet

```
#include
#define MAX 50

struct queue
{
    int front;
    int rear;
    int queue_arr[MAX];
};
delete_queue(struct queue *);
insert_queue(struct queue *, int);
full_queue(struct queue *);
empty_queue(struct queue *);
void display(struct queue *);

main()
{
    int choice,n;
    struct queue q;
    q=(struct queue *)malloc(sizeof(struct queue));
    q->front = q->rear = - 1;
    while(1)
    {
        printf("1.Pushn");
        printf("2.Popn");
        printf("3.Quitn");
        printf("Enter your choice : ");
        scanf("%d",&choice);
        switch(choice)
        {
            case 1 :
                if(!full_queue(q))
                {
                    printf("\nEnter item to be inserted");
                    scanf("%d",&n);
                    insert_queue(q,n);
                }
                else
                {
                    printf("\n Can't push  queue is full");
                    exit(1);
                }
                break;
            case 2:
                if(!empty_queue(q))
                {
                    n=delete_queue(q);
                    printf("%d is the deleted item",n);
                    break;
                }
                else
                {
                    printf("\n Can't delete  queue is empty");
                    exit(1);
                }
                break;
            case 3:
                exit(1);
            default:
                printf("Wrong choicen");
        }
    }
    /*End of switch*/
}
```

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```
        return 1;
    }
    else
        return 0;
}
inesrt_queue (struct queue *q, int n)
{
    if(q->front== -1)
        q->front++;
    q->rear++;
    q->queue_arr[q->rear] = n;
    return 0;
}/*End of inesrt_queue */
delete_queue ()
{
    int n;
    n= q->queue_arr[q->front];
    if(q->front==q->rear)
    {
        front = rear = -1;
        return n;
    }
    q->front++;
    return n;
}/*End of delete_queue ()*/
```