

```
#include<stdio.h>

# define MAXSIZE 10

int queue[MAXSIZE];

int rear=-1, front=0;

void insert(){

    int n;

    if(rear==MAXSIZE-1)

        printf("queue overflow");

    else{

        printf("enter the number");

        scanf("%d",&n);

        rear++;

        queue[rear]=n;

    }

}
```

```
void delete1()

{

    int n;

    if(front>rear)

        printf("queue is empty");

    else{

        n=queue[front];

        front++;

        printf("element deleted");

    }

}
```

```
void display()

{

    if(front>rear)
```

```

        printf("queue is empty");
else
{
    printf("queue elements");
    for(int i=front; i<=rear; i++){
        printf("\n %d",queue[i]);1
    }
}

```

```

int main(){
    int choice;
    do{
        printf("\n -----queue-----");
        printf("\n1.insert \n2.delete \n3.display\n4.exit");
        printf("-----");1

        case 1:
            insert();
            break;
        case 2:
            delete1();
            break;
        case 3:
            display();
            break;
        case 4 :
            printf("Exiting");
            break;
        default:
            printf("invalid choice");
    }
}

```

```
while(choice!=4);
```

```
return 0;
```

```
}
```

```
osoft-MiEngine-Out-pveabblw.ku0' '--stderr-Microsoft-MiEngine-Error-wf1iu5vy.cug' '--pid-Microsoft-MiEngine-Pid-ckzheje.yf4' '--dbgExe-C:\msys64\usr\bin\gdb.exe' --interpreter-mi
-----queue-----
1.insert
2.deletel
3.display
4.exit-----
enter your choice1
enter the number11
-----queue-----
1.insert
2.deletel
3.display
4.exit-----
enter your choice1
enter the number22
-----queue-----
1.insert
2.deletel
3.display
4.exit-----
enter your choice1
enter the number33
-----queue-----
1.insert
2.deletel
3.display
4.exit-----
enter your choice2
element deleted-----queue-----
1.insert
2.deletel
3.display
4.exit-----
enter your choice3
queue elements
22
33-----queue-----
1.insert
2.deletel
3.display
4.exit-----
enter your choice4
invalid choice
PS C:\Users\band> |
```