INPUT:

```
#include<iostream>
#define max 5
using namespace std;

struct queue
{
	int arr[max];
	int front, rear;
}q;

class job
{
public:
	job()
	{
		q.front=-1;
		q.rear=-1;
	}
	int isFull();
	int isEmpty();
	void Enqueue(int);
	string Dequeue();
	void display();
};
int job::isFull()
{
	if(q.rear==max-1)
		return 1;
	else
		return 0;
}
int job::isEmpty()
{
	if(q.front==q.rear)
		return 1;
	else
		return 0;
}
void job::Enqueue(int m)
{
	q.arr[++q.rear]=m;
}
string job::Dequeue()
{
	if(!isEmpty())
	{
		q.front++;
		return(to_string(q.arr[q.front]));
	}
	else
   {
	string t="No";
		return (t);
```

```
   }

}
void job::display()
{
	if(!isEmpty())
	{
		cout<<"\nPending Jobs descending in priority:";
		for(int i=q.front+1;i<=q.rear;i++)
			cout<<"\n"<<q.arr[i];
	}
	else
		cout<<"\nNo Jobs Pending.";
}
int main()
{
	job j;
	string temp;
	int ch,n;
	while(true)
	{
		cout<<"\n----------Menu----------";
		cout<<"\n\t1. Add a Job";
		cout<<"\n\t2. Delete a Job";
		cout<<"\n\t3. Display Pending Jobs";
		cout<<"\n\t4. Exit";
		cout<<"\nEnter Your Choice: ";
		cin>>ch;
		switch(ch)
		{
			case 1: if(!j.isFull())
					{
						cout<<"\nEnter the Job code: ";
						cin>>n;
						j.Enqueue(n);
					}
					else
						{cout<<"\nQueue is Full!";}
					break;
			case 2: temp=j.Dequeue();
					 if(temp!="No")
						cout<<"\nJob "<<temp<<" was deleted
successfully!";
					 else
						cout<<"\nNo Job in Queue!";
					 break;
			case 3: j.display();
					 break;
			case 4: cout<<"\nEnd of program";
					  return (0);
			default: cout<<"\nUnexpected Choice input! Try again...";
		}
	}
}
```

OUTPUT:

```
----------Menu----------
	1. Add a Job
	2. Delete a Job
	3. Display Pending Jobs
	4. Exit
Enter Your Choice: 1

Enter the Job code: 13

----------Menu----------
	1. Add a Job
	2. Delete a Job
	3. Display Pending Jobs
	4. Exit
Enter Your Choice: 1

Enter the Job code: 40

----------Menu----------
	1. Add a Job
	2. Delete a Job
	3. Display Pending Jobs
	4. Exit
Enter Your Choice: 1

Enter the Job code: 56

----------Menu----------
	1. Add a Job
	2. Delete a Job
	3. Display Pending Jobs
	4. Exit
Enter Your Choice: 3

Pending Jobs descending in priority:
13
40
56
----------Menu----------
	1. Add a Job
	2. Delete a Job
	3. Display Pending Jobs
	4. Exit
Enter Your Choice: 2

Job 13 was deleted successfully!
----------Menu----------
	1. Add a Job
	2. Delete a Job
	3. Display Pending Jobs
	4. Exit
Enter Your Choice: 2
```

```
Job 40 was deleted successfully!
----------Menu----------
        1. Add a Job
        2. Delete a Job
        3. Display Pending Jobs
        4. Exit
Enter Your Choice: 2

Job 56 was deleted successfully!
----------Menu----------
        1. Add a Job
        2. Delete a Job
        3. Display Pending Jobs
        4. Exit
Enter Your Choice: 3

No Jobs Pending.
----------Menu----------
        1. Add a Job
        2. Delete a Job
        3. Display Pending Jobs
        4. Exit
Enter Your Choice: 4

End of program
[Program finished]
```