1. Please apply "private" data scope to the data member that need to be private. Queue myque = new Queue(); 2. For readability we should convert this line below Console.WriteLine("Deque item : {0}", myque.Dequeue()); to string data = myque.Dequeue(); Console.WriteLine("Deque item : {0}", data); 3. In the EnQue(), we don't need to check if data is already exist. 4. In the DeQue(), we should check if array is empty at the begining and return immediately if it is. public string Dequeue() if(arr.Count == 0){ Console.WriteLine("No index in Array !!"); return ""; } string item = arr[0].ToString(); arr.Remove(item); return (item); }