Problem Description:
Implement a Priority Queue using arrays of patients. Each patient record contains his/her name, weight and body temperature. When the patient enters the clinic, staff asks his/her name, checks the temperature and weight of the patient. For consulting the doctor, the patient is placed in the queue according to the severity of his/her temperature. The higher the body temperature is, the lesser time is required to consult the doctor. Following would be the signatures of the methods of the priority queue.

Operations:
1. public void enqueue (String name, int temperature, int weight)
   requires: Priority Queue is not full. input: name, temperature and weight.
   results: A new Patient Element is added to the queue according to its priority.
   output: none.

2. public Patient serve ()
   requires: Priority Queue is not empty. input: None
   results: the element at the head of Priority Queue is removed and returned.
   output: patient at head

3. public int length ()
   input: results: The number of element in the Priority Queue is returned.
   output: length of the queue.
4. boolean Full ()
   requires: input:
   results: If Priority Queue is full then true is returned, otherwise false.
   output: true or false

**Exercise:** Implement the above priority queue of patients using java. For this you have to develop two classes (Patient class and PriorityPatientQueue class). Also develop a Test/Main class for the PriorityPatientQueue to check the different operations of the priority queue. (2+6+2)