**AP Computer Science Exam Free Response Pop Quiz - Candidates**

Problem Description: An organization interviews candidates for a variety of positions. The Candidate class stores the position for which a candidate is applying and the score received during the candidate’s interview. The declaration of the Candidate class is shown below:

public class Candidate

{

// Constructor for a Candidate object

public Candidate(int idNumber, String position, double interviewScore)

{ /\* implementation not shown \*/ }

// Returns the position for which the candidate is applying

public String getPosition()

{ /\* implementation not shown \*/ }

// Returns the candidate's interview score

public double getInterviewScore()

{ /\* implementation not shown \*/ }

// There may be instance variables, constructors, and methods that are not shown.

}

The CandidatePool class maintains a list of the candidates interviewed. The declaration of the CandidatePool class is shown below:

public class CandidatePool

{

private ArrayList<Candidate> pool;

/\*\* Constructor for CandidatePool object \*/

public CandidatePool()

{ pool = new ArrayList<Candidate>(); }

//Add a candidate to the Candidate pool

public void addCandidate(Candidate candidate)

{ pool.add(candidate); }

**You have three methods to write on this free response problem:**

Method # 1 - Returns a list of candidates from the pool that have the same position as position

public List<Candidate> getCandidatesForPosition(String position)

Method # 2 - Returns the candidate from the pool with the highest interview score that has the same position as position or null if position does not match the position of any candidate.

public Candidate getBestCandidate(String position)

Method # 3 - Removes all candidates from the pool that have the same position as position. This method will return the number of candidates removed from the pool

public int removeCandidatesForPosition(String position)

Write your three methods on a separate sheet of paper.