JEE Choice filling Web Application and Seat-Allocation: A CS251 Report by Group 11.

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Oct 31, 2014

Overview

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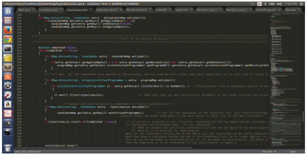

```
        }
        for(Map.Entry<String , Candidate> entry : dsCandidateMap.entrySet()){
            if(candidateMap.get(entry.getKey()).getAppliedUpto()==-1){
                candidateMap.get(entry.getKey()).setDSStatus(false);
                candidateMap.get(entry.getKey()).setAppliedUpto(0);
            }
        }
    ////////////////////////////////////////////////////////////////////////////////////////////
        /***************************************Start of the General Allocation***************************************/
    ////////////////////////////////////////////////////////////////////////////////////////////

        boolean completed=false;
        while(completed == false)
        {
            for (Map.Entry<String , Candidate> entry : candidateMap.entrySet())
            {
                if(entry.getValue().getAppliedUpto()!=-1 && entry.getValue().getNationality() && !(entry.getValue().getDSStatus())){
                    programMap.get(entry.getValue().currentVirtualProgramme().getProgramID()).get(entry.getValue().currentVirtualProgramme().getMeritListInd
                }
            }
            /** Till Now , all the candidates have applied to the programs. now the programs will either keep their applicants in the wait list or reject th

            for (Map.Entry<String , ArrayList<VirtualProgramme> > entry : programMap.entrySet())
            {
                for (ListIterator<VirtualProgramme> it = entry.getValue().listIterator(); it.hasNext(); )   /**ListIterator with no arguements points to the
                 {

                  it.next().filter(rejectionList);                    /** Make sure that you add rejectionList parameter in the filter function for Virtua
                }
            }
                  /** @doubt Can java variables be redefined? as "entry" variable here */
            for(Map.Entry<String , Candidate> entry : rejectionList.entrySet())
            {
                candidateMap.get(entry.getKey()).nextVirtualProgramme();        /** For all the candidates in the rejection list, call "nextVirtualProgr
                                                        present choice and makes them apply to the next choice in their list in the next iteration*/
            }
            if(rejectionList.size()==0){completed = true;}       /** If no one is rejected in this iteration, rejectionList will be empty and the iteration c
                                                        /** Iterations are terminated when , for all candidates:
                                                            1). When he reaches the end of his preference list and can not apply to any more program
                                                            2). When he is in Waitlist for some Program.
                                                        When all the candidates satisfy one of the above two, the algorithm can be safely terminate
                                                        Note that when a candidate reaches the end of his Preference list, he no longer applies to a
                                                        Thus he can not be added to rejectionList at all.(To be added in rejectionList, one needs to
                                                        Thus the algorithm is to be terminated iff the rejectionList is empty.*/

            rejectionList.clear();
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