Task 1:

Processing Time of vii : 21.1739 ± 0.1118 s

Processing Time of blur : 6.5319 ± 0.2382 s

Processing Time of night : 24.8989 ± 0.1347 s

Processing Time of onnx : 4.4188 ± 0.1679 s

Processing Time of emboss : 2.7328 ± 0.7097 s

Processing Time of muse : 17.1215 ± 0.2904 s

Processing Time of wave : 13.1546 ± 0.2897 s

while (!pq.isEmpty() && iterations<=30\*1000 ){  
 //System.out.println(pq.size());  
 iterations++;  
  
 MyNode root=pq.poll();  
  
 if (root.visited.size()>=maxSet && root.tardiness>=maxTard){  
 mset=root.visited;  
 maxTard=root.tardiness;  
 maxSet=root.visited.size();  
 maxSol=root;  
 }  
 //System.out.println(root.tardiness);  
 if(*isLeaf*(root,N) ){  
 System.*out*.println(root);  
 //System.exit(1);  
 }  
 for(int i=1;i<=N;i++){  
 if(!root.visited.contains(i)){  
 double jobTardiness=Math.*max*( root.makespan-due\_dates[i],0);  
 double totalTardiness= root.tardiness+ jobTardiness;  
 makespan=root.makespan-ptime[i];  
 HashSet<Integer> temp=new HashSet<>();  
 temp.addAll(root.visited);  
 temp.add(i);  
 MyNode kid=new MyNode(i,root,temp,makespan,totalTardiness);  
  
  
 if (*dependencyOkay*(root,dependencies,i) )  
 pq.add(kid);  
 }  
 }  
  
}