

MSIT HONOR CODE

Academic integrity is important to MSIT and our partner universities. Your commitment to academic integrity shows respect for your own work and the work of your peers.

By enrolling in MSIT program, I agree that I will:

1. Complete all instructional activities such as tasks, quizzes, projects, assignments, etc., on my own, unless collaboration on an assignment is explicitly permitted.
2. Maintain only one user account and not let anyone else use my username and/or password.
3. Not engage in any activity that would dishonestly improve my results, or improve or hurt the results of others.
4. Not post answers to problems that are being used to assess learner performance.
5. Not share your solutions to homework, quizzes, or exams with anyone else unless explicitly permitted by the instructor. This includes anything written by you, as well as any official solutions provided by the course staff.

Plagiarism

1. Plagiarism is when you copy words, ideas, or any other materials from another source without giving credit. Plagiarism is unacceptable in an academic environment and is a serious violation of MSIT Honor Code.
2. If some or all of your assignment is identified as plagiarism, you may lose all the credit you received for the assignment. And if you earned a grade for that course, it may be taken away.
3. We understand our learners come from many different academic backgrounds, and many are unfamiliar with our academic standard for plagiarism. This violation of our policies may have been a one time mistake, but if you are found repeatedly plagiarizing, you may be removed from the program.

VIOLATIONS

If you are found in violation of the Honor Code, you may be subject to one or more of the following actions:

1. Receiving a zero or no credit for an assignment;
2. Having any certificate/degree earned in the course or program withheld or revoked;
3. Being unenrolled from a course or program
4. Additional actions may be taken at the sole discretion of MSIT and IIIT Hyderabad.

No refunds will be issued in the case of any corrective action for such violations.

Honor Code violations will be determined at the sole discretion of MSIT. You will be notified if a determination has been made that you have violated this Honor Code and you will be informed of the corresponding action to be taken as a result of the violation.

Note: This document is adapted for the use at MSIT based on the honor code created by EDX and Coursera

Recruitment Process

An ABC company wants to recruit n candidates during n days. They will recruit only one candidate per day who stands in top position in the applicants (The top position will be based on the percentage that they got in their master's degree. If candidates have same percentage then the candidate applied first will be given the high priority), The job seekers are allowed to apply any time online from day 1 to day n . The company ABC selects the top candidate every morning at 9.00 am, by clubbing all the new job applications till that time with the leftover candidates.

The Application ID, Candidate Name, Master's Degree, Percentage in master's degree are the attributes of the Candidate.

1. Write a program to recruit n candidates during n days as explained in the above process.
2. After n th candidate is selected, print the leftover candidates by giving the ranks based on percentages that they got in their masters. If candidates have same percentage then the candidate applied first will be given the prior rank
3. Analyse the complexity of your algorithm.

Choose the best Data Structures and algorithm to optimise the process of the recruiting the candidates for the company. The data structures and algorithms you choose to be efficient even in the case of millions of people apply for a job in company ABC.

Input Format:

The first line contains n represents the number of days that the company will recruit.

From the next line, the applications and candidate selection follows.

Whenever "Recruit_Top_Candidate" appears in a line, that indicates the closing of applications till that day and the recruitment has to be done on that day.

The last line contains Ranking, that displays all the candidates who are not recruited in to the ABC company.

Output format:

The first n lines contains the candidates who got recruited into the ABC company day wise.

Leave a blank line

The next lines containing the non-recruited candidates displayed in ranked order.

Sample Test case:

3

Apply 10001,Deepak,ME,92.3

Apply 10002,Hari,MS,86.4

Apply 10003,Kumar,MS,92.4

Recruit_Top_Candidate
Apply 20001,Siva,ME,92.3
Apply 20002,Ramya,MS,88.6
Apply 20003,Vipul,MS,89.3
Apply 20004,Shiva,ME,86.4
Recruit_Top_Candidate
Apply 30001,Vamsi,M.Tech,98.0
Apply 30002,Lakshmi,ME,87.3
Apply 30003,Bharath,M.Tech,76.5
Recruit_Top_Candidate
Ranking

Sample Output:

10003,Kumar,MS,92.4
10001,Deepak,ME,92.3
30001,Vamsi,M.Tech,98.0

1: 20001,Siva,ME,92.3
2: 20003,Vipul,MS,89.3
3: 20002,Ramya,MS,88.6
4: 30002,Lakshmi,ME,87.3
5: 10002,Hari,MS,86.4
6: 20004,Shiva,ME,86.4
7: 30003,Bharath,M.Tech,76.5

Explanation:

When the first “Recruit_Top_Candidate” is called application number 10003 had highest percentage among the 3 students applied.

When the second “Recruit_Top_Candidate” is called application number 10001 and 20001 had same highest percentage but 10001 candidate had applied first so 10001 is selected among the 6 candidate (2 leftover candidates and 4 new applied)

In similar to the above 3rd candidate is selected when third “Recruit_Top_Candidate” is called
The remaining 7 candidates were listed based on their percentages and Application ID.