

Problem 210: Fill in the Blanks

Difficulty: Medium

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Problem Background

Lockheed Martin is a large corporation and produces a huge amount of documents and letters on a daily basis. Sometimes it's easier to use a pre-written template to generate these correspondences, rather than write them all out each time.

Problem Description

You're working with Lockheed Martin's Human Resources department to send letters out to prospective interns. You'll be provided with information about each candidate and the position they're applying for, which must be used to fill out a provided letter template. The template will include several fields which must be replaced with the relevant information to create a complete letter.

By the way, we are hiring! If you're interested in applying for an internship at Lockheed Martin, keep an eye on the Code Quest Academy website for information about upcoming Code Quest and CYBERQUEST internships. We look forward to seeing your resume!

Sample Input

The first line of your program's input, received from the standard input channel, will contain a positive integer representing the number of test cases. Each test case will include:

- A line containing two positive integers separated by spaces; respectively,
 - D, the number of lines of data that will be provided, and
 - T, the number of lines of text in the letter template
- D lines containing the data to be populated into the template. Each line will contain the name of the field (which may contain upper- and lower-case letters and spaces), a colon (:), a space, and the value of the field (which may contain any printable characters).
- T lines containing the template to be filled out. Each line may contain any printable character; fields to be populated will be indicated by the use of square brackets containing the name of the relevant field. Square brackets will not appear in any other context.

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6 8
Candidate Name: John Doe
Business Area: Enterprise Operations
Job Title: Software Engineer
Job Description: engineer software
Start Date: 6/1/2023
Manager Name: Jane Smith
Dear [Candidate Name],
Lockheed Martin [Business Area] is delighted to offer you the position
of [Job Title]!
As part of this position, you will be expected to [Job Description]. We
expect that you will be able to start on [Start Date].
We look forward to seeing you on [Start Date] at the [Business Area]
offices downtown.
Sincerely, [Manager Name]

Sample Output

For each test case, your program must print the provided message, with all fields replaced with their given values.

Dear John Doe,
Lockheed Martin Enterprise Operations is delighted to offer you the position
of Software Engineer!
As part of this position, you will be expected to engineer software. We
expect that you will be able to start on 6/1/2023.
We look forward to seeing you on 6/1/2023 at the Enterprise Operations
offices downtown.
Sincerely, Jane Smith