

**ACM Pacific NW Region Programming Contest
9 November 2002**

**PROBLEM B
WhereNow Vacations**

WhereNow Vacations agency provides a vacation brokerage service, connecting travelers with unsold spots on similarly-priced vacations to a variety of locations. Each week, travel agencies provide WhereNow with a list of the locations still needing travelers as well as the number of travelers needed for each location. We will refer to each such traveler opening as an 'unsold seat.' WhereNow accepts no more than 35 unsold seats (combined total, across all agencies) in a given week.

During the same week, frugal travelers log into the WhereNow Vacations web site to pay a deposit and indicate which locations (at least 1, but up to 10) they'd be willing to travel to. If WhereNow is unable to match a customer to a vacation in one of their requested locations, his or her deposit will be refunded with interest. Travelers' flexibility as to where they will travel is rewarded with ultra bargain-basement prices. The site accepts deposits from no more than 20 customers per week.

Normally, the owner allows the computer to customers to the most appropriate available vacations as part of the weekend batch processing. To keep a human touch in WhereNow's service, however, she would like a "3pm Early Warning" report run each Friday afternoon. The report's sole purpose will be to indicate if it will not be possible to match all of this week's customers with a vacation package. (On the rare event this occurs the owner will review the requests that Friday evening and handle the matching personally.)

You will write a program to provide this report.

The input file "**b.in**" will contain multiple weeks' tour and customer information as shown in the sample on the next page.

- The first line of the file indicates the number of weeks to process, followed by a blank line before the first week's data.
- The first line of a week's data contains the number of open seats available for the first week. All weeks will have at least one open seat.
- The next line of input lists each available tour location and the number of unsold seats for each location.
- The subsequent line indicates the number of customers, followed by one line per customer. All weeks will have at least one customer.
- Each customer's line of information begins with a count of how many countries the customer is willing to visit followed by the list of country names.
- A blank line separates each week's input.

Output will consist of one line per week, with each week separated by a blank line. Print each week's number and whether all customers will be able to be matched with a vacation as shown in the sample output.

**ACM Pacific NW Region Programming Contest
9 November 2002**

<pre>Sample Input: 2 6 Zimbabwe 1 Egypt 2 England 3 5 3 Egypt Zimbabwe Mexico 1 France 1 Zimbabwe 2 France Egypt 2 Zimbabwe Egypt 4 France 1 Mexico 3 3 3 France Jamaica Brazil 3 England Mexico France 3 Mexico Canada France</pre>	<pre>Sample Output: Week #1: Warning! Week #2: All is well.</pre>
---	---