

# Identification Numbers

*Filename: idnum*

## **The Problem**

There are many new summer camps starting up at UCF. As new departments try to start up their summer camps, word got around that there was a computer science summer camp at UCF that was already established. One of the tools that these other summer camps need is a tool to create identification numbers for all the campers. These summer camps have kindly asked Arup to create a computer program to automate the process of allocating identification numbers. Naturally, Arup has decided that this would be an excellent exercise for his BHCSIers. For each summer camp in question, identification numbers will be given in the order that students sign up for the camp. Each camp will have a minimum number for which to start their student identification numbers. Each subsequent number will be generated by adding 11 to the previously assigned number so that each number is sufficiently spaced from the others. After assigning all the identification numbers, your program will need to print an alphabetized list of each student paired with his/her identification number.

## **The Input**

The first line of the input file will consist of a single integer  $n$  representing how many summer camps for which you are assigning identification numbers. For each summer camp, the first line of input will contain one integer  $k$  ( $0 < k \leq 200$ ), representing the number of students in that summer camp. The second line of input for each summer camp will contain a single positive integer,  $minID$ , which represents the minimum identification number for all the students in the camp. (This is the number that will be given to the first student to sign up for the camp.) The following  $k$  lines will each contain a single name consisting of only 1 to 19 upper case letters. These names are the names of all the students in the class, in the order in which they signed up for the camp. The names within a single summer camp are guaranteed to be unique.

## **The Output**

For every summer camp, the first line will be of the following format:

Summer camp #m:

where m is the number of the summer camp starting with 1.

The following  $k$  lines should list each student in the summer camp in alphabetical order and his/her identification number, separated by a space.

Put a blank line of output between the output for each summer camp.

**Sample Input**

2  
8  
2000  
SARAH  
LISA  
ARUP  
DAN  
JOHN  
ALEX  
CONNER  
BRIAN  
10  
100001  
JACK  
ISABELLA  
HAROLD  
GARY  
FRAN  
EMILY  
DANIELLE  
CAROL  
BOB  
ADAM

**Sample Output**

Summer camp #1:

ALEX 2055  
ARUP 2022  
BRIAN 2077  
CONNER 2066  
DAN 2033  
JOHN 2044  
LISA 2011  
SARAH 2000

Summer camp #2:

ADAM 100100  
BOB 100089  
CAROL 100078  
DANIELLE 100067  
EMILY 100056  
FRAN 100045  
GARY 100034  
HAROLD 100023  
ISABELLA 100012  
JACK 100001