**6. Data Reader**

# Program Name: DataReader.java Input File: datareader.dat

Given a string and a list of other strings, find the string that has the most characters in the corresponding spot of the original string. If no character is correctly placed, a failed message will be printed. If more than one string has the same number of characters in their corresponding places, the string that appeared first in the original dataset will be printed. Once the corresponding string has been found, print it out, followed by an accuracy percentage that represents the percentage of letters that were in the correct position following this equation:

**Input**The first line will contain integer n*,* which represents the amount of test cases to follow. The next ndatasets will each start with integer s, followed by the correct string, and s-1 lines, each with a random permutation of the original string.

**Output**

Output the string that has the greatest number of corresponding letters, and on the next line, print “Accuracy Percentage: ’’, followed by the accuracy percentage calculated using the formula aforementioned and rounded to a whole number. If no strings were found to have even one character in the corresponding place, print “FAILED” on a new line instead of the corresponding string and for the accuracy percentage, print “NaN” instead of a percentage.

**Example Input File**

2

4

wildcat

wdatlci

awtcdil

wiadclt

5

squid

qdisu

qsidu

diqus

usqdi

**Example Output to Screen**

wiadclt

Accuracy Percentage: 71%

FAILED

Accuracy Percentage: NaN