## Function usages

Your task is to implement grading (multiple students at once) program which orders the result before displaying them. The following functions are already provided for you. To run the program, you can call these functions. (If you use them properly, you should implement less than 6 commands)

```
def read answers():
                                           def scoring(answers, solution):
   N = \overline{int(input())}
                                               scores = []
                                               for sid, ans in answers:
    answers = []
    for k in range(N):
                                                   score = marking(ans, solution) / \
        sid, ans = input().split()
                                                           len(solution) * 100
                                                   grade = grading(score)
        answers.append([sid, ans])
    return answers
                                                   scores.append([sid, score, grade])
                                               return scores
def marking(answer, solution):
                                           def report(scores):
    score = 0
    for i in range(len(answer)):
                                               for sid, sc, grade in scores:
        if answer[i] == solution[i]:
                                                   print(sid, sc, grade)
           score += 1
   return score
                                           def sort(scores):
                                               x = []
def grading(score):
                                               for sid, score, grade in scores:
   g = [[80,"A"], [70,"B"],
                                                   x.append([score, sid, grade])
         [60,"C"], [50,"D"]]
                                               x.sort()
    for a,b in g:
                                               for i in range(len(x)):
        if score >= a:
                                                   scores[i] = [x[i][1], x[i][0], x[i][2]]
            return b
    return "F"
```

## Input

The first line is the solution to our multiple-choice exam.

The second line is integer N which is the number of students.

The next N lines, each line has 2 strings separating by a space, the first string is student's ID and the second string is the student's answer for the exam.

## Output

ID number, score, and grade for each student, arranged in descending order. If scores are equal, order according to student's ID (from large to small). The score is a percentage of the number of correct answers.

## Example

| Input      | Output       |
|------------|--------------|
| AAAAA      | 4444 100.0 A |
| 5          | 5555 80.0 A  |
| 0011 ABBBB | 2222 80.0 A  |
| 2222 AAAAB | 3333 60.0 C  |
| 3333 AAABB | 0011 20.0 F  |
| 4444 AAAAA |              |
| 5555 AAAAB |              |
|            |              |