Percentile Scores

The candidates performance in GATE exam is measured in percentile scores.
Example: if you have secured a 70 percentile in GATE, which means that 70% of the candidates who appeared for GATE are below or at the same level as you are.
The result of a candidate is given as a tuple (p,q) where p and q are roll number and marks of the candidate respectively.

Write a program to compute percentile of each student and store it in a data structure.
Once the percentile scores are stored, the percentile of a student should be accessed in average constant time.
Formula to compute Percentile score of a student x:
(100* number of students who scored below or same as x)/total number of students
Solve the problem with efficient complexity.
Explain the complexity of your algorithm

Sample Input:
6
31,78
12,56
43,90
74,79
16,90
23,35
4
23
12
74
43

Sample Output:
16.67
33.33
66.67
100.0

Input explanation:
First line of input contains an Integer (N) represents total number of students data
From second line to next N lines contains students data
Next line contains Integer(M) represents no. of student roll number queries
Next M line contains roll numbers of students where you need to print the percentile of those students.

Explanation:
For student marks 90,90,79,78,56 35 the following will be the percentile scores (100*6/6=100.0)(100*6/6=100),(100*4/6=66.67),(100*3/6=50.0),(100*2/6=33.33),(100*⅙ =16.67)

Note: Round the output to 2 decimal points