

CPSC 221: Algorithms and Data Structures

PeerWise

You will be generating your own multiple-choice questions and sharing them with one another. Our aim is to empower you to think about ways of evaluating understanding of a learning goal while having the opportunity to gauge your own understanding of it in the process. Use of PeerWise enables you to get immediate feedback on your work and allows you to compare yourself to your peers. In addition, by using crowdsourcing, we can create a pool of high-quality multiple-choice questions that can be used in the future offerings of the course. Your PeerWise grade will be computed as follows:

2% authoring questions

For each question, you would need to hand in a hard copy of the question before a given deadline. The main reason for having the two phases is so you can author creative question without seeing other people's questions. There will be a total of 6 calls for questions. Each of your questions must satisfy these criteria:

- The question is clearly worded and does not contain obvious spelling or grammatical errors
- The question correctly targets the given learning goals
- There is only one correct answer to your question, and you have correctly identified this answer
- All other options must seem plausible – avoid using “silly” alternative answers
- Your explanation must be clear and thorough. Imagine that someone looks at your question and asks you: “I don’t understand this – can you explain it to me?” Your explanation must be in your own words, and should be helpful to someone who answers your question incorrectly

Each question will be marked out of 2.

- 0: For not handing in a hard copy or authoring a very poor question.
- 1: For authoring a question that does not satisfy the given criteria.
- 2: For authoring a question that fully satisfies the given criteria.

You will be assessed on your best 4 questions. This means that if you have authored 4 questions and have received a grade of 2 on each, then although you encouraged to participate in authoring more great questions, you already have obtained full marks for this part.

You should enter your question on PeerWise after the deadline for each call. Note that the sooner you enter your question the more likely it is for other students to answer your question, which would help you boost your Active Participation grade.

3% Active Participation

Your PeerWise active participation grade will be computed as a combination of your “Answer Score” and “Reputation score”.

Reputation score 1232 Questioning: 72 Answering: 182 Rating: 14
Answer score 2821

• **Reputation Score:** Your reputation score is an approximate measure of the value of your contribution to others. The individual components of your score are based on the questions you have written, your answers to questions, and your evaluations. In general if you write useful high quality questions and comments, answer questions thoughtfully and rate questions fairly and accurately, your score should increase over time.

• **Answer Score:** Your Answer score increases every time you answer a question correctly (based on the answer the question author suggested was correct and how others have answered the same question). Your answer score decreases by a small amount every time you answer a question incorrectly. The exact number of points awarded is displayed as soon as you choose your answer and may vary per question.

To obtain full active participation mark, you would need to earn a minimum "Reputation score" of 500 and a minimum "Answer score" of 500. This will be quite easy to achieve if you do the following:

- Author questions that other students rate highly
- Answer questions (starting early and answering before other students, results in a higher score)
- Rate questions (starting early and rating before other students, results in a higher score)

Up to 1% bonus mark

If your "total reputation score" is higher than 600, then we will use the following formula to compute your bonus mark, which will be added to your final course grade.

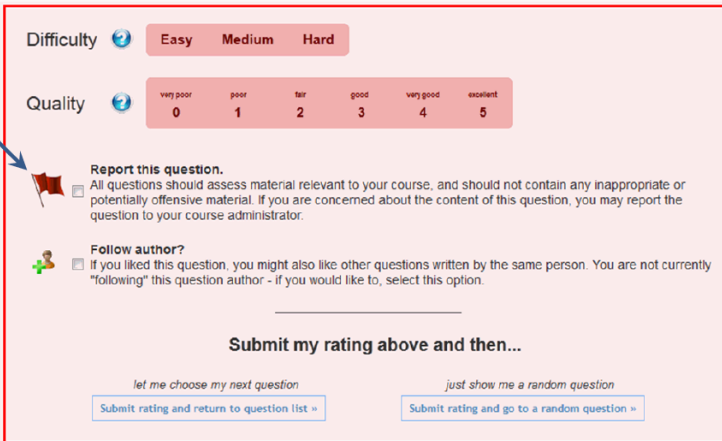
$$1 - \frac{100}{score - 500}$$

For example, a student with a "total reputation score" of 1000 will receive a 0.8% bonus.

The overall intention is for you guys to learn in a social environment and have fun with it. Writing good questions, and explaining the answer, are excellent ways to reinforce course material and written communication. If everyone puts energy into developing high quality and relevant questions, the repository will become a valuable revision resource.

Reporting questions

Please help us in identifying incorrect or inappropriate questions by flagging them when you rate the question.



The screenshot shows a user interface for rating a question. At the top, there is a "Difficulty" section with three buttons: "Easy", "Medium", and "Hard". Below that is a "Quality" section with a 5-point scale: "very poor" (0), "poor" (1), "fair" (2), "good" (3), "very good" (4), and "excellent" (5). Under the quality scale, there are two options: "Report this question." with a flag icon and a checkbox, and "Follow author?" with a person icon and a checkbox. Below these options is a section titled "Submit my rating above and then..." with two buttons: "let me choose my next question" (with a sub-button "Submit rating and return to question list >>") and "just show me a random question" (with a sub-button "Submit rating and go to a random question >>"). A blue arrow points from the left towards the "Report this question." checkbox.