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Media Engineering and Technology
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How to calculate your grade?

Overview

- You have 1 project composed of 4 milestones.
- The 4 milestones are worth **70%** of the course.
- Each milestone is worth **17.5%** of the course (70 % / 4 milestones).
- You have **2 grades per milestone**:
  - Project submission: Team grade (Public + Private tests)
  - Quiz: Individual grade (Public tests on spot)
- Your final grade is a combination between both according to their ratio.
- **Compilation errors:**
  - In your code: Zero in the item
  - In the tests: Calculate the grade of the tests that can compile
- Each test is worth a point. Errors and failures in the tests are of equal weight.
- You can get a detailed report for your grades from evaluator.in

Steps

Assume that these are your grades for Milestone (1):
- Project submission – Public: You passed 70 tests from 80 tests
- Project submission – Private: You passed 15 tests from 20 tests
- Quiz: You passed 7 tests from 10 tests

To calculate your final grade in the milestone, follow the following steps:

1. Get the grade of the project submission as a percentage

$$milestone = \frac{Passed\ public\ tests + Passed\ private\ tests}{No.of\ public\ tests + No.of\ private\ tests} * 100 = \frac{70+15}{80+20} * 100 = 85\%$$

2. Get the grade of the quiz as a percentage

$$quiz = \frac{Passed\ tests}{No.of\ tests} * 100 = \frac{7}{10} * 100 = 70\%$$

3. Get the ratio between them

$$ratio = \frac{quiz\ percentage}{milestone\ percentage} * 100 = \frac{70}{85} * 100 = 82.35\%$$

4. Calculate the percentage you should get from the milestone final grade. You should substitute in the following equations by the previous 3 values.

$$final\ grade\ (\%) = \left(\frac{2}{3}\right) * 85 + \left(\frac{1}{3}\right) * \left(\frac{70}{100}\right) * 85 = 76.5\%$$

```
double ratio= quiz/milestone*100;
double finalGrade=0;
if(ratio>=85)
      finalGrade= milestone;
else if(ratio<85 && ratio>=70)
      finalGrade= (2.0/3)*milestone + (1.0/3)*(quiz/100)*milestone;
else if(ratio<70 && ratio>=60)
      finalGrade= 0.5*milestone + 0.5*(quiz/100)*milestone;
else if (ratio<60 && ratio>=50)
      finalGrade= (1.0/3)*milestone + (2.0/3)*(quiz/100)*milestone;
else
      finalGrade= quiz;
```

5. Calculate how much points did you get from the milestone (Actual grade you got in the course)

$$final\ grade = \frac{final\ grade\ (\%)}{100} * total\ maximum\ grade = \frac{76.5}{100} * 17.5 = 13.38$$

This means you got 13.38% of the course so far.