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Day 12: Inheritance ☆



Objective

Today, we're delving into Inheritance. Check out the attached tutorial for learning materials and an instructional video!

Task

You are given two classes, *Person* and *Student*, where *Person* is the base class and *Student* is the derived class. Completed code for *Person* and a declaration for *Student* are provided for you in the editor. Observe that *Student* inherits all the properties of *Person*.

Complete the Student class by writing the following:

- A *Student* class constructor, which has **4** parameters:
 - 1. A string, *firstName*.
 - 2. A string, *lastName*.
 - 3. An integer, id.
 - 4. An integer array (or vector) of test scores, **scores**.
- A char calculate() method that calculates a Student object's average and returns the grade character representative of their calculated average:

Grading Scale

Letter	Average (a)
0	90 ≤ a ≤ 100
E	$80 \le a < 90$
Α	$70 \le a < 80$
Р	$55 \le a < 70$
D	$40 \le a < 55$
Т	a < 40

Input Format

The locked stub code in your editor calls your *Student* class constructor and passes it the necessary arguments. It also calls the *calculate* method (which takes no arguments).

You are not responsible for reading the following input from stdin:

The first line contains *firstName*, *lastName*, and *id*, respectively. The second line contains the number of test scores. The third line of space-separated integers describes *scores*.

Constraints

- $1 \leq |firstName|, |lastName| \leq 10$
- $|id| \equiv 7$

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• $0 \le score, average \le 100$

Output Format

This is handled by the locked stub code in your editor. Your output will be correct if your Student class constructor and calculate() method are properly implemented.

Sample Input

```
Heraldo Memelli 8135627
2
100 80
```

Sample Output

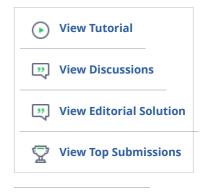
```
Name: Memelli, Heraldo
ID: 8135627
Grade: O
```

Explanation

This student had 2 scores to average: 100 and 80. The student's average grade is $\frac{(100+80)}{2}=90$. An average grade of 90 corresponds to the letter grade O, so our *calculate()* method should return the character 'O'.



Need Help?



Resources

Inheritance in Java

Download problem statement

Download sample test cases

Suggest Edits

```
f ⊌ ir
```

```
Current Buffer (saved locally, editable) ♀ ⑤

1 import ↔;
2
3 v class Person {
4 protected String firstName;
5 protected String lastName;
```