Day 12: Inheritance!

Problem Statement

Welcome to Day 12! Check out this video reviewing inheritance, or just jump right into the problem.

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

Complete the *Grade* class by writing a class constructor (`Grade(String,String,int,int)`) and a `char calculate()` method. The *calculate* method should return the *character* representative of a Student's *Grade. *Score* as defined in this chart:

Score	Grade
score < 40	D
40 ≤ score < 60	B
60 ≤ score < 75	A
75 ≤ score < 90	E
90 ≤ score ≤ 100	O

Input Format

Input is already handled for you by the code pre-filled in the editor. There are 4 lines of input containing $first \ name$, $last \ name$, $phone$, and $score$, respectively.

Constraints
$ 4 \le |first$ $name|, |last$ $name| \le 10$
phone contains exactly 7 digits
$1 \le score \le 100$

Output Format

Output is already handled for you by the code pre-filled in the editor. Your output will be correct if your *Grade* class constructor and *calculate* method are properly written.

Sample Input

```
Heraldo
Memelli
8135627
90
```

Sample Output

```
First Name: Heraldo
Last Name: Memelli
Phone: 8135627
Grade: O
```