

Day 12: Inheritance!

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: Herald
Last Name: Memelli
Phone: 8135627
Grade: O