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Project 1 Documentation

Approach:

I began by reading the program specification from the documentation provided. From this, I learned what classes I would need to write and their associated methods and objects. I first wrote the Height class as it was integral to the player class, then the Player class followed by the main Project1 class. The Player and Height classes have a composition relationship, while Project1 and Player have an association.

Class Diagram:

A diagram of a project

Description automatically generated

Test Cases:

|  |  |  |  |
| --- | --- | --- | --- |
| INPUT | EXPECTED | ACTUAL | PASS |
| “Bob”, “43 5 11”;  “Linda”, “38 6 2” | Average player age: 40.50  The tallest player is Name: Linda Age: 38 Height: 6’2” | Average player age: 40.50  The tallest player is Name: Linda Age: 38 Height: 6'2" | YES |
| NULL | No player data entered. | No player data entered. | YES |
| “Bob”, “43 4 26”;  “Linda”, “24 3 32” | Average player age: 33.50  The tallest player is Name: Linda Age: 24 Height: 5’8” | Average player age: 33.50  The tallest player is Name: Linda Age: 24 Height: 5'8" | YES |