Problem Definitions

* Goal: Find an individual’s BMI and Weight Status
* Input: Weight in pounds, height in inches
* Output: Body Mass Index and correlating Weight Status label. Also, error messages where mistakes are input by the user.
* Constant: One input for weight, one input for height, and four possible weight status outputs.
* Formula: BMI = weight / pow(height, 2) \* 703
* Other Requirements: including the C math library for the function pow ().

Test Plan

|  |  |  |  |
| --- | --- | --- | --- |
| Case | Weight | Height | BMI |
| Easy to Compute | 1 | 1 | 703 |
| 100 | 50 | 28.12 |
| Typical Cases | 192 | 67 | 30.0995 |
| 96 | 57 | 20.7719 |
| Special Cases | -5 | 50 | ERROR |
| 96 | 1100 | ERROR |

Flow Chart

