Team Assignment

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| calcVolumeOfContainer Test Matrix | | | | | | | |
|  | Test Cases | | | | | | |
| Valid | Invalid | | | Boundary | | |
| **1** | **2** | **3** | **4** | **5** | **6** | **7** |
| Inputs | | | | | | | |
| height | 1.83 | -1 | 1.83 | 1 | 2.5 | 0 | 1.83 |
| width | 2.35 | 2.35 | -235 | 2 | 3.5 | 2.35 | 2.35 |
| length | 5.89 | 5.89 | 5.89 | 5 | 5.89 | 5.89 | 8.45 |
| Outputs | | | | | | | |
| volume | 25.329945 | -13.8415 | -2532.9945 | 10 | 51.5375 | 0 | 36.339225 |
| error |  | Height is negative | Width is negative |  |  |  | Length is too high |

calcVolumeOfContainer(height, width, length):double

BEGIN

IF(height<0 OR height>1.83)THEN

RETURN -1

IF(width<0 OR width>2.35)THEN

RETURN -1

IF(length<0 OR length>5.89>)THEN

RETURN -1

area = length \* width

volumen = area \* height

END

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Tests Cases | | | | | | | |
| Variables | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| height | 1.83 | -1 | 1.83 | 1 | 2.5 | 0 | 1.83 |
| width | 2.35 | 2.35 | -235 | 2 | 3.5 | 2.35 | 2.35 |
| length | 5.89 | 5.89 | 5.89 | 5 | 5.89 | 5.89 | 8.45 |
| area | 13.8415 |  |  | 10 | 20.615 | 13.8415 | 19.8575 |
| volume | 25.329945 |  |  | 10 | 51.5375 | 0 | 36.339225 |