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| **ID** | **Priority** | **Project** | **Module** | **Summary** | **STR** | **Expected Result** |
| ID 1 |  | DetermineTriangleType | Builder | **Triangle with equal positive lengths of sides** | 1. Enter three equal positive integer sides 2. Check the type of triangle | 1.Sides are initialized  2.Triangle type is defined “Equilateral” |
| ID 2 |  | DetermineTriangleType | Builder | **Triangle with all not equal positive lengths of sides** | 1. Enter three not equal positive lengths sides 2. Check the type of triangle | 1. Sides are initialized  2.Triangle type is defined “Versatile” |
| ID 3 |  | DetermineTriangleType | Builder | **Triangle with two equal positive lengths of sides and one not equal length of positive side** | 1. Enter two equal positive sides and one not equal positive side 2. Check the type of triangle | 1. Sides are initialized  2.Triangle type is defined “Isosceles” |
| ID 4 |  | DetermineTriangleType | Checker | **Check warning message if one of sides has negative length** | 1. Enter one negative length of side of triangle and two positive lengths of sides. | 1. The message about invalid triangle appears |
| ID 5 |  | DetermineTriangleType | Checker | **Check warning message if one of sides has incorrect length** | 1. Enter length of one side more then sum of lengths of other two sides | 1. The message about not existing triangle appears |
| ID 6 |  | DetermineTriangleType | Checker | **Check warning message if one of sides has incorrect length** | 1. Enter length of one side equal sum of lengths of other two sides | 1. The message about not existing triangle appears |
| ID 7 |  | DetermineTriangleType | Builder | **Triangle with equal positive lengths of sides** | 1. Enter three equal decimal sides (for example 3.5, 3.5, 3.5) 2. Check the type of triangle | 1.Sides are initialized  2.Triangle type is defined “Equilateral” |
| ID 8 |  | DetermineTriangleType | Builder | **Triangle with zero sides length** | 1. Enter three sides length = 0 2. Check the type of triangle | 1. The message about invalid triangle appears |
| ID 9 |  | DetermineTriangleType | Builder | **Triangle with equal positive lengths of sides** | 1. Enter three equal decimal sides (for example 3.5, 3.5, 3.5) 2. Check the type of triangle | 1.Sides are initialized  2.Triangle type is defined “Equilateral” |
| ID 10 |  | DetermineTriangleType | Builder | **Triangle with equal positive lengths of sides** | 1. Enter three equal decimal sides (for example 3.5, 3.5, 3.5) 2. Check the type of triangle | 1.Sides are initialized  2.Triangle type is defined “Equilateral” |
| ID 11 |  | DetermineTriangleType | Builder | **Triangle with equal positive lengths of sides** | 1. Enter three big not equal decimal values of length of sides (for example 1.000.000, 100.000.000,1.000.000.000) 2. Check the type of triangle | 1.Sides are initialized  2.Triangle type is defined “Versatile” |