Individual Assignment

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| calcTimeInTransit Test Matrix | | | | | | |
|  | Test Cases | | | | | |
| Valid | Invalid | | | Boundary | |
| **1** | **2** | **3** | **4** | **5** | **6** |
| Inputs | | | | | | |
| fromlocation | Riverside | Mountain | 1.83 | Village | Riverside | Riverside |
| speed (MPH) | 35 | 80 | 10 | -10 | 40 | 1 |
| Outputs | | | | | | |
| Time | 10 hours 24 Minutes |  |  |  | 9 hours 6 Minutes | 364 hours |
| error |  | Speed is too high for a group of horses | Fromlocation must be letters | Speed is negative |  |  |

calcTimeInTransit (fromlocation, speed):double

BEGIN

IF(fromlocation=””)THEN

RETURN -1

IF(speed<1 OR speed>40)THEN

RETURN -1

IF(fromlocation=”Riverside”)THEN

distance = 364

IF(fromlocation=”Mountain”)THEN

distance = 450

IF(fromlocation=”Village”)THEN

distance = 225

IF(fromlocation=”City”)THEN

distance = 200

IF(fromlocation=”Mineral”)THEN

distance = 310

IF(fromlocation=”Cattle”)THEN

distance = 210

time = distance/speed/24

END

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Tests Cases | | | | | | |
| Variables | 1 | 2 | 3 | 4 | 5 | 6 |
| fromlocation | Riverside | Mountain | 1.83 | Village | Riverside | Riverside |
| speed | 35 | 80 | 10 | -10 | 40 | 1 |
| distance | 364 | 450 |  | 225 | 364 | 364 |
| time | 10 hours | -1 | -1 | -1 | 9 hours | 364 hours |