Task 1

Conditions: Maximum size of delivery of goods in Russia: 60x40x40 cm, maximum weight: 15 kg, maximum cost: 20 000 rubles. Maximum size of delivery of goods not in Russia: 30x20x25 cm, maximum weight: 10 kg, maximum cost: 10 000 rubles.

- Create a table of parameters and values using the equivalence class and boundary value techniques
- Create input files for PICT using the table of parameters and values.
- Add conditions for PICT (at least 5, with different operators)
- From the input files, build tests with PICT

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Tablle of values and parameters:

Maximum size of goods delivery in Russia (cm)	Maximum weight (kg)	Maximum cost (rub.)	Maximum size of goods delivery not in Russia (cm)	Maximum weight (kg)	Maximum cost (rub.)
60	15	20000	30	10	10000
1	1	0.01	1	1	0.01
59	14	19999.99	29	9	9999.99
2	10	0.02	2	2	0.02
30	7	10000	15	5	5000
40	null	null	20	null	null
1			1		
39			19		
2			2		
20			10		
40			25		
1			1		
39			24		
2			2		
20			12		
null			null		

Input PICT data

(list of parameters with values and 5 conditions. Conditions are applied at the same time!)

1

sizeRF(lenght): 60, 1, 59, 2, 30, null
sizeRF(width): 40, 1, 39, 2, 20, null
sizeRF(height): 40, 1, 39, 2, 20 null
weightRF: 15, 1, 14, 2, 7, null
priceRF: 20000, 0.01, 19999.99, 0.02, 10000, null
sizeNotRF(length): 30, 1, 29, 2, 15, null
sizeNotRF(width): 20, 1, 19, 2, 10, null
sizeNotRF(height): 25, 1, 24, 2, 12, null
weightNotRF: 10, 1, 9, 2, 5, null
priceNotRF: 10000, 0.01, 9999.99, 0.02, 5000, null

2

lenght: 60, 1, 59, 2, 30, null, 30, 1, 29, 2, 15, null
width: 40, 1, 39, 2, 20, null, 20, 1, 19, 2, 10, null
height: 40, 1, 39, 2, 20, null, 25, 1, 24, 2, 12, null
weight: 15, 1, 14, 2, 7, null, 10, 1, 9, 2, 5, null
price: 20000, 0.01, 19999.99, 0.02, 10000, null, 10000, 0.01, 9999.99, 0.02, 5000, 15000, null

Conditions:

if [lenght] = 61 then [price] = 0;
if [weight] = 16 then [price] = 0;
if [price] = 0 then [price] = 0;
if [height] = 41 then [price] = 0;
if [price] = in {1, 39} then [price] = 0;

Amount of tests:

Amount of tests by brute-force testing method - 6 * 56 = 336 tests
Amount of tests by method of minimum checks: 16 tests
Amount of tests by atomicity test method: 56 - 6 + 1 = 51