Tarea 10

**Parte A:**

* Regla 1
* IF the traffic light is green then the action is go
* Regla 2
* If the traffic light is red then the action is stop
* Regla 3
* If the traffic light Is red then the action is go

Forward reasoning:

The traffic light is gren 🡪 The action is go

Backward reasoning:

The action is go 🡪 The traffic light is green & the traffic light is red

Parte B:

Case 1:

Problem &Features:

Problem: Computer’s mouse didn’t work

Mouse code: S/N: X7J94481700874

Mark: Genius

Battery type: AAA

Num of batteries: 1

Rating: 1.5 V

State of the scanner: Ok

Size: medium

State of the left click: Ok

State of the right click: Ok

State of the central wheel: Ok

Solution:

Diagnosis: Internal component disconnected or burned

Repair: keep the mouse technical maintenance

Case 2:

Problem &Features:

Problem: Computer’s mouse didn’t work

Mouse code: S/N: X7K94282730471

Mark: Genius

Battery type: AAA

Num of batteries: 1

Rating: 2.2 V

State of the scanner: Ok

Size: medium

State of the left click: Bad

State of the right click: Ok

State of the central wheel: Bad

Solution:

Diagnosis: Internal component disconnected or burned

Repair: keep the mouse technical maintenance

Case 3:

Problem &Features:

Problem: Computer’s mouse didn’t work

Mouse code: S/N: X2Y93281732436

Mark: Genius

Battery type: AAA

Num of batteries: 2

Rating: 2.2 V

State of the scanner: Ok

Size: medium

State of the left click: Ok

State of the right click: Bad

State of the central wheel: Ok

Solution:

Diagnosis: Internal component disconnected or burned

Repair: keep the mouse technical maintenance

New problem:

Problem &Features:

Problem: Computer’s mouse didn’t work

Mouse code: S/N: X1G26215629272

Mark: Genius

Battery type: AAA

Num of batteries: 1

Rating: 1.8 V

State of the scanner: Ok

Size: medium

State of the left click: Ok

State of the right click: Bad

State of the central wheel: Bad

Compare with the case A:

0.3 \*

1.0 \*

1.0

1.0

0.6 \*

1.0 \*

1.0

1.0 \*

1.0 \*

0.1 \*

Similarity by C1: 1/(45)(6\*0.3 + 6\*1.0 + 1\*1.0 + 1\*1.0 + 6\*0.6 + 6\*0.1 + 1\*1.0 + 1\*1.0 + 6\*1.0 + 6\*0.1) = 0.001

Compare with case B:

0.4 \*

1.0 \*

1.0

1.0

0.6 \*

1.0 \*

1.0

1.0 \*

0.1 \*

0.1 \*

Similarity by C1: 1/(45)(6\*0.4 + 6\*1.0 + 1\*1.0 + 1\*1.0 + 6\*0.6 + 6\*0.1 + 1\*1.0 + 1\*1.0 + 6\*0.1 + 6\*0.1) = 0.002

Compare with C3:

0.1 \*

1.0 \*

1.0

1.0

0.7 \*

1.0 \*

1.0

1.0 \*

0.1 \*

0.1 \*

Similarity by C1: 1/(45)(6\*0.1 + 6\*1.0 + 1\*1.0 + 1\*1.0 + 6\*0.7 + 6\*0.1 + 1\*1.0 + 1\*1.0 + 6\*0.1 + 6\*0.1) = 0.18

Is more similar to case 3.