

Laboratory 4

Input Domain Modelling

Assumption:

- Taxi has maximum passengers of 6.

Pickup Address:

- A1 Sector D
- A2 Sector G
- A3 Inner Ring
- A4 Outer Ring
- A5 Airport O
- A6 Airport R

Destination Address:

- B7 Sector D
- B8 Sector G
- B9 Inner Ring
- B10 Outer Ring
- B11 Airport O
- B12 Airport R

Day of the Week

- C13 Weekday
- C14 Weekend
- C15 Statutory Holiday

Time of Day:

- D16 0h – 7h
- D17 7h – 10h
- D18 10h – 17h
- D19 17h – 19h
- D20 19h – 0h

Number of Passengers:

- E21 ≥ 0 and ≤ 3
- E22 ≥ 4 and ≤ 6

Type of Tariff:

- F23 \$/km
 - F24 \$/hour
- [!slowSpeed and !standstill]
[!fastSpeed]

Speed of Taxi:

- | | |
|-------------------|-----------------------|
| • <u>G25 Fast</u> | [property fastSpeed] |
| • G26 Slow | [property slowSpeed] |
| • G27 Standstill | [property standstill] |

Test Frames (All-Blocks Criterion)

- A1-B12-C13-D16-E21
- A2-B11-C14-D17-E22
- A6-B7-C15-D18-E22
- A5-B8-D19-E22
- A3-B9-C14-D20-E21-F24-G26
- A4-B10-C13-D17-E22-F24-G27
- A3-B10-C13-D19-E21-F23-G25

Test Frames (Base-Blocks Criterion)

- A1-B7-C13-D16-E21-F23-G25
- A2-B7-C13-D16-E21-F23-G25
- A3-B7-C13-D16-E21-F23-G25
- A4-B7-C13-D16-E21-F23-G25
- A5-B7-C13-D16-E21-F23-G25
- A6-B7-C13-D16-E21-F23-G25
- A1-B8-C13-D16-E21-F23-G25
- A1-B9-C13-D16-E21-F23-G25
- A1-B10-C13-D16-E21-F23-G25
- A1-B11-C13-D16-E21-F23-G25
- A1-B12-C13-D16-E21-F23-G25
- A1-B7-C14-D16-E21-F23-G25
- A1-B7-C15-D16-E21-F23-G25
- A1-B7-C13-D17-E21-F23-G25
- A1-B7-C13-D18-E21-F23-G25
- A1-B7-C13-D19-E21-F23-G25
- A1-B7-C13-D20-E21-F23-G25
- A1-B7-C13-D16-E22-F23-G25