Part 1

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| --- | --- |
| A | DepartureTime |
| B | Location |
| C | BUS |
| D | ArrivalTime |

|  |  |  |
| --- | --- | --- |
| A,B -> C | D -> A | C,D -> B |

A+ -> A : B+ -> B : C+ -> C : D+ ->D,A

A,B+ -> A,B,C : A, C+ -> A,C : A,D+ -> A,D : B,C+ -> B,C : B,D+ -> A,B,C,D : C,D -> A,B,C,D

A,B,C+ -> A,B,C : A,C,D+ -> A,B,C,D : A,B,D + -> A,B,C,D : B,C,D+ -> A,B,C,D

1. .

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| --- | --- | --- | --- | --- | --- | --- |
| B -> D | C,D -> B,A | B,D -> A,C | A,B -> A,C | A,C,D -> B | A,B,D -> C | B,C,D ->A |

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| D->A | A,B -> C | B,D -> A,C | C,D -> A,B | A,B,D ->C | A,C,D -> B | B,C,D -> A |

Part 2:

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| --- | --- | --- | --- | --- |
| DepartureTime = B | Route = E | Driver = C | Bus = A | Capacity = D |

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| --- | --- | --- | --- | --- |
| A+ =A,D | B+ =B | C+ = C | D+ = D | E+ = E |
| A,B+ = A,B,C,D | A,C+ = A,C,D | A,D+ = A,D | A,E+ -> A,D,E | B,C+ ->B,C |
| B,D+ -> B,D | B,E+ -> A,B,C,D,E (**KEY**) | C,D+ -> C,D | C,E+ -> C,E | D,E+ -> D,E |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| A,B,C+ -> A,B,C,D | A,B,D+ -> A,B,C,D | A,B,E+ -> A,B,C,D,E (**KEY)** | B,C,D+ -> B,C,D | B,C,E+ -> A,B,C,D,E (**KEY)** |
| A,C,D+ -> A,C,D | A,C,E+ -> A,C,D,E | A,D,E+ -> A,D,E | B,D,E -> A,B,C,D,E (**KEY)** | C,D,E+ -> C,D,E |

|  |  |  |
| --- | --- | --- |
| A,B,C,E -> A,B,C,D,E (**KEY)** | B,C,D,E+ -> A,B,C,D,E (**KEY)** | A,B,D,E + -> A,B,C,D,E (**KEY)** |
| A,B,C,D -> A,B,C,D | A,C,D,E+ -> A,C,D,E | A,B,C,D,E+ -> A,B,C,D,E |

5.

