**Elena commands - Input/Output:**

***Experiment 0:***

***Input:***

CreateTrucks

CreateRoute AliceSprings Adelaide Melbourne Sydney Bristbane

InfoRoute 1

Findtruck

AddTruckToRoute 1 1001

UpdateRoute 1

InfoRoute 1

ViewRoute OnRoute

CreatePackage AliceSprings Adelaide 45 steven1

FindRoute AliceSprings Adelaide

AddPackageToRoute 1 1

UpdateRoute 1

InfoRoute 1

ViewRoute Scheduled

RemovePackageFromRoute 1 1

UpdateRoute 1

InfoRoute 1

RemovetruckFromRoute 1 1001

UpdateRoute 1

InfoRoute 1

ViewRoute Cancelled

Cancelroute 1

UpdateRoute 1

InfoRoute 1

End

***Output:***

Truck ID: 1001 --- Brand: Scania --- Status: Free,

Capacity: 42000

Range: 8000

=====================================================

Truck ID: 1002 --- Brand: Scania --- Status: Free,

Capacity: 42000

Range: 8000

=====================================================

Truck ID: 1003 --- Brand: Scania --- Status: Free,

Capacity: 42000

Range: 8000

=====================================================

Truck ID: 1004 --- Brand: Scania --- Status: Free,

Capacity: 42000

Range: 8000

=====================================================

Truck ID: 1005 --- Brand: Scania --- Status: Free,

Capacity: 42000

Range: 8000

=====================================================

Truck ID: 1006 --- Brand: Scania --- Status: Free,

Capacity: 42000

Range: 8000

=====================================================

Truck ID: 1007 --- Brand: Scania --- Status: Free,

Capacity: 42000

Range: 8000

=====================================================

Truck ID: 1008 --- Brand: Scania --- Status: Free,

Capacity: 42000

Range: 8000

=====================================================

Truck ID: 1009 --- Brand: Scania --- Status: Free,

Capacity: 42000

Range: 8000

=====================================================

Truck ID: 1010 --- Brand: Scania --- Status: Free,

Capacity: 42000

Range: 8000

=====================================================

Truck ID: 1011 --- Brand: Man --- Status: Free,

Capacity: 37000

Range: 10000

=====================================================

Truck ID: 1012 --- Brand: Man --- Status: Free,

Capacity: 37000

Range: 10000

=====================================================

Truck ID: 1013 --- Brand: Man --- Status: Free,

Capacity: 37000

Range: 10000

=====================================================

Truck ID: 1014 --- Brand: Man --- Status: Free,

Capacity: 37000

Range: 10000

=====================================================

Truck ID: 1015 --- Brand: Man --- Status: Free,

Capacity: 37000

Range: 10000

=====================================================

Truck ID: 1016 --- Brand: Man --- Status: Free,

Capacity: 37000

Range: 10000

=====================================================

Truck ID: 1017 --- Brand: Man --- Status: Free,

Capacity: 37000

Range: 10000

=====================================================

Truck ID: 1018 --- Brand: Man --- Status: Free,

Capacity: 37000

Range: 10000

=====================================================

Truck ID: 1019 --- Brand: Man --- Status: Free,

Capacity: 37000

Range: 10000

=====================================================

Truck ID: 1020 --- Brand: Man --- Status: Free,

Capacity: 37000

Range: 10000

=====================================================

Truck ID: 1021 --- Brand: Man --- Status: Free,

Capacity: 37000

Range: 10000

=====================================================

Truck ID: 1022 --- Brand: Man --- Status: Free,

Capacity: 37000

Range: 10000

=====================================================

Truck ID: 1023 --- Brand: Man --- Status: Free,

Capacity: 37000

Range: 10000

=====================================================

Truck ID: 1024 --- Brand: Man --- Status: Free,

Capacity: 37000

Range: 10000

=====================================================

Truck ID: 1025 --- Brand: Man --- Status: Free,

Capacity: 37000

Range: 10000

=====================================================

Truck ID: 1026 --- Brand: Actros --- Status: Free,

Capacity: 26000

Range: 13000

=====================================================

Truck ID: 1027 --- Brand: Actros --- Status: Free,

Capacity: 26000

Range: 13000

=====================================================

Truck ID: 1028 --- Brand: Actros --- Status: Free,

Capacity: 26000

Range: 13000

=====================================================

Truck ID: 1029 --- Brand: Actros --- Status: Free,

Capacity: 26000

Range: 13000

=====================================================

Truck ID: 1030 --- Brand: Actros --- Status: Free,

Capacity: 26000

Range: 13000

=====================================================

Truck ID: 1031 --- Brand: Actros --- Status: Free,

Capacity: 26000

Range: 13000

=====================================================

Truck ID: 1032 --- Brand: Actros --- Status: Free,

Capacity: 26000

Range: 13000

=====================================================

Truck ID: 1033 --- Brand: Actros --- Status: Free,

Capacity: 26000

Range: 13000

=====================================================

Truck ID: 1034 --- Brand: Actros --- Status: Free,

Capacity: 26000

Range: 13000

=====================================================

Truck ID: 1035 --- Brand: Actros --- Status: Free,

Capacity: 26000

Range: 13000

=====================================================

Truck ID: 1036 --- Brand: Actros --- Status: Free,

Capacity: 26000

Range: 13000

=====================================================

Truck ID: 1037 --- Brand: Actros --- Status: Free,

Capacity: 26000

Range: 13000

=====================================================

Truck ID: 1038 --- Brand: Actros --- Status: Free,

Capacity: 26000

Range: 13000

=====================================================

Truck ID: 1039 --- Brand: Actros --- Status: Free,

Capacity: 26000

Range: 13000

=====================================================

Truck ID: 1040 --- Brand: Actros --- Status: Free,

Capacity: 26000

Range: 13000

=====================================================

Route with ID: 1 has been created!

RouteID: 1

Route status: Open

Route locations: AliceSprings (21/02 Wednesday @ 06:00) → Adelaide 21/02 Wednesday @ 23:00 → Melbourne 22/02 Thursday @ 07:00 → Sydney 22/02 Thursday @ 17:00 → Bristbane 23/02 Friday @ 03:00

Route total distnce: 4041 km

Route capacity: No packages assigned.

Route start date: 21/02 Wednesday @ 06:00

Route final ETA: 23/02 Friday @ 03:00

PackageID: No packages assigned.

TruckID: No truck assigned.

Available trucks: Truck ID: 1001 --- Brand: Scania --- Status: Free,

Capacity: 42000

Range: 8000

=====================================================

Truck ID: 1002 --- Brand: Scania --- Status: Free,

Capacity: 42000

Range: 8000

=====================================================

Truck ID: 1003 --- Brand: Scania --- Status: Free,

Capacity: 42000

Range: 8000

=====================================================

Truck ID: 1004 --- Brand: Scania --- Status: Free,

Capacity: 42000

Range: 8000

=====================================================

Truck ID: 1005 --- Brand: Scania --- Status: Free,

Capacity: 42000

Range: 8000

=====================================================

Truck ID: 1006 --- Brand: Scania --- Status: Free,

Capacity: 42000

Range: 8000

=====================================================

Truck ID: 1007 --- Brand: Scania --- Status: Free,

Capacity: 42000

Range: 8000

=====================================================

Truck ID: 1008 --- Brand: Scania --- Status: Free,

Capacity: 42000

Range: 8000

=====================================================

Truck ID: 1009 --- Brand: Scania --- Status: Free,

Capacity: 42000

Range: 8000

=====================================================

Truck ID: 1010 --- Brand: Scania --- Status: Free,

Capacity: 42000

Range: 8000

=====================================================

Truck ID: 1011 --- Brand: Man --- Status: Free,

Capacity: 37000

Range: 10000

=====================================================

Truck ID: 1012 --- Brand: Man --- Status: Free,

Capacity: 37000

Range: 10000

=====================================================

Truck ID: 1013 --- Brand: Man --- Status: Free,

Capacity: 37000

Range: 10000

=====================================================

Truck ID: 1014 --- Brand: Man --- Status: Free,

Capacity: 37000

Range: 10000

=====================================================

Truck ID: 1015 --- Brand: Man --- Status: Free,

Capacity: 37000

Range: 10000

=====================================================

Truck ID: 1016 --- Brand: Man --- Status: Free,

Capacity: 37000

Range: 10000

=====================================================

Truck ID: 1017 --- Brand: Man --- Status: Free,

Capacity: 37000

Range: 10000

=====================================================

Truck ID: 1018 --- Brand: Man --- Status: Free,

Capacity: 37000

Range: 10000

=====================================================

Truck ID: 1019 --- Brand: Man --- Status: Free,

Capacity: 37000

Range: 10000

=====================================================

Truck ID: 1020 --- Brand: Man --- Status: Free,

Capacity: 37000

Range: 10000

=====================================================

Truck ID: 1021 --- Brand: Man --- Status: Free,

Capacity: 37000

Range: 10000

=====================================================

Truck ID: 1022 --- Brand: Man --- Status: Free,

Capacity: 37000

Range: 10000

=====================================================

Truck ID: 1023 --- Brand: Man --- Status: Free,

Capacity: 37000

Range: 10000

=====================================================

Truck ID: 1024 --- Brand: Man --- Status: Free,

Capacity: 37000

Range: 10000

=====================================================

Truck ID: 1025 --- Brand: Man --- Status: Free,

Capacity: 37000

Range: 10000

=====================================================

Truck ID: 1026 --- Brand: Actros --- Status: Free,

Capacity: 26000

Range: 13000

=====================================================

Truck ID: 1027 --- Brand: Actros --- Status: Free,

Capacity: 26000

Range: 13000

=====================================================

Truck ID: 1028 --- Brand: Actros --- Status: Free,

Capacity: 26000

Range: 13000

=====================================================

Truck ID: 1029 --- Brand: Actros --- Status: Free,

Capacity: 26000

Range: 13000

=====================================================

Truck ID: 1030 --- Brand: Actros --- Status: Free,

Capacity: 26000

Range: 13000

=====================================================

Truck ID: 1031 --- Brand: Actros --- Status: Free,

Capacity: 26000

Range: 13000

=====================================================

Truck ID: 1032 --- Brand: Actros --- Status: Free,

Capacity: 26000

Range: 13000

=====================================================

Truck ID: 1033 --- Brand: Actros --- Status: Free,

Capacity: 26000

Range: 13000

=====================================================

Truck ID: 1034 --- Brand: Actros --- Status: Free,

Capacity: 26000

Range: 13000

=====================================================

Truck ID: 1035 --- Brand: Actros --- Status: Free,

Capacity: 26000

Range: 13000

=====================================================

Truck ID: 1036 --- Brand: Actros --- Status: Free,

Capacity: 26000

Range: 13000

=====================================================

Truck ID: 1037 --- Brand: Actros --- Status: Free,

Capacity: 26000

Range: 13000

=====================================================

Truck ID: 1038 --- Brand: Actros --- Status: Free,

Capacity: 26000

Range: 13000

=====================================================

Truck ID: 1039 --- Brand: Actros --- Status: Free,

Capacity: 26000

Range: 13000

=====================================================

Truck ID: 1040 --- Brand: Actros --- Status: Free,

Capacity: 26000

Range: 13000

=====================================================

Truck with ID: 1001 has been added to route with ID: 1

Route with ID: 1 has been updated with status: Scheduled!

RouteID: 1

Route status: Scheduled

Route locations: AliceSprings (21/02 Wednesday @ 06:00) → Adelaide 21/02 Wednesday @ 23:00 → Melbourne 22/02 Thursday @ 07:00 → Sydney 22/02 Thursday @ 17:00 → Bristbane 23/02 Friday @ 03:00

Route total distnce: 4041 km

Route capacity: No packages assigned.

Route start date: 21/02 Wednesday @ 06:00

Route final ETA: 23/02 Friday @ 03:00

PackageID: No packages assigned.

TruckID: 1001

No routes to view!

Package 1 from AliceSprings to Adelaide of the steven1, 45 kg accepted in AliceSprings Hub.

Route locations: AliceSprings (21/02 Wednesday @ 06:00) → Adelaide 21/02 Wednesday @ 23:00 → Melbourne 22/02 Thursday @ 07:00 → Sydney 22/02 Thursday @ 17:00 → Bristbane 23/02 Friday @ 03:00

Pakcage with ID: 1 has been added to route with ID: 1!

Route with ID: 1 has been updated with status: Scheduled!

RouteID: 1

Route status: Scheduled

Route locations: AliceSprings (21/02 Wednesday @ 06:00) → Adelaide 21/02 Wednesday @ 23:00 → Melbourne 22/02 Thursday @ 07:00 → Sydney 22/02 Thursday @ 17:00 → Bristbane 23/02 Friday @ 03:00

Route total distnce: 4041 km

Route capacity: 45 kg

Route start date: 21/02 Wednesday @ 06:00

Route final ETA: 23/02 Friday @ 03:00

PackageID: 1

TruckID: 1001

RouteID: 1

Route status: Scheduled

Route locations: AliceSprings (21/02 Wednesday @ 06:00) → Adelaide 21/02 Wednesday @ 23:00 → Melbourne 22/02 Thursday @ 07:00 → Sydney 22/02 Thursday @ 17:00 → Bristbane 23/02 Friday @ 03:00

Route total distnce: 4041 km

Route capacity: 45 kg

Route start date: 21/02 Wednesday @ 06:00

Route final ETA: 23/02 Friday @ 03:00

Route current ETA: Truck hasn't left yet!

Pakcage with ID: 1 has been removed from route with ID: 1!

Route with ID: 1 has been updated with status: Scheduled!

RouteID: 1

Route status: Scheduled

Route locations: AliceSprings (21/02 Wednesday @ 06:00) → Adelaide 21/02 Wednesday @ 23:00 → Melbourne 22/02 Thursday @ 07:00 → Sydney 22/02 Thursday @ 17:00 → Bristbane 23/02 Friday @ 03:00

Route total distnce: 4041 km

Route capacity: No packages assigned.

Route start date: 21/02 Wednesday @ 06:00

Route final ETA: 23/02 Friday @ 03:00

PackageID: No packages assigned.

TruckID: 1001

Truck with ID: 1001 has been removed from route with ID: 1!

Route with ID: 1 has been updated with status: Cancelled!

RouteID: 1

Route status: Cancelled

Route locations: AliceSprings (21/02 Wednesday @ 06:00) → Adelaide 21/02 Wednesday @ 23:00 → Melbourne 22/02 Thursday @ 07:00 → Sydney 22/02 Thursday @ 17:00 → Bristbane 23/02 Friday @ 03:00

Route total distnce: 4041 km

Route capacity: No packages assigned.

Route start date: 21/02 Wednesday @ 06:00

Route final ETA: 23/02 Friday @ 03:00

PackageID: No packages assigned.

TruckID: No truck assigned.

RouteID: 1

Route status: Cancelled

Route locations: AliceSprings (21/02 Wednesday @ 06:00) → Adelaide 21/02 Wednesday @ 23:00 → Melbourne 22/02 Thursday @ 07:00 → Sydney 22/02 Thursday @ 17:00 → Bristbane 23/02 Friday @ 03:00

Route total distnce: 4041 km

Route capacity: 0 kg

Route start date: 21/02 Wednesday @ 06:00

Route final ETA: 23/02 Friday @ 03:00

Route current ETA: Truck hasn't left yet!

Route with ID: 1 has been cancelled!

Route with ID: 1 not found!

Route with ID: 1 not found!

***Experiment 1:***

***Input:***

CreateTrucks

CreateRoute AliceSprings Adelaide Melbourne Sydney Bristbane

InfoRoute 1

ViewRoute OnRoute

Findtruck

AddTruckToRoute 1 1001

UpdateRoute 1

InfoRoute 1

ViewRoute Scheduled

RemovetruckFromRoute 1 1001

UpdateRoute 1

InfoRoute 1

ViewRoute Cancelled

Cancelroute 1

UpdateRoute 1

InfoRoute 1

End

***Output:***

Truck ID: 1001 --- Brand: Scania --- Status: Free,

Capacity: 42000

Range: 8000

=====================================================

Truck ID: 1002 --- Brand: Scania --- Status: Free,

Capacity: 42000

Range: 8000

=====================================================

Truck ID: 1003 --- Brand: Scania --- Status: Free,

Capacity: 42000

Range: 8000

=====================================================

Truck ID: 1004 --- Brand: Scania --- Status: Free,

Capacity: 42000

Range: 8000

=====================================================

Truck ID: 1005 --- Brand: Scania --- Status: Free,

Capacity: 42000

Range: 8000

=====================================================

Truck ID: 1006 --- Brand: Scania --- Status: Free,

Capacity: 42000

Range: 8000

=====================================================

Truck ID: 1007 --- Brand: Scania --- Status: Free,

Capacity: 42000

Range: 8000

=====================================================

Truck ID: 1008 --- Brand: Scania --- Status: Free,

Capacity: 42000

Range: 8000

=====================================================

Truck ID: 1009 --- Brand: Scania --- Status: Free,

Capacity: 42000

Range: 8000

=====================================================

Truck ID: 1010 --- Brand: Scania --- Status: Free,

Capacity: 42000

Range: 8000

=====================================================

Truck ID: 1011 --- Brand: Man --- Status: Free,

Capacity: 37000

Range: 10000

=====================================================

Truck ID: 1012 --- Brand: Man --- Status: Free,

Capacity: 37000

Range: 10000

=====================================================

Truck ID: 1013 --- Brand: Man --- Status: Free,

Capacity: 37000

Range: 10000

=====================================================

Truck ID: 1014 --- Brand: Man --- Status: Free,

Capacity: 37000

Range: 10000

=====================================================

Truck ID: 1015 --- Brand: Man --- Status: Free,

Capacity: 37000

Range: 10000

=====================================================

Truck ID: 1016 --- Brand: Man --- Status: Free,

Capacity: 37000

Range: 10000

=====================================================

Truck ID: 1017 --- Brand: Man --- Status: Free,

Capacity: 37000

Range: 10000

=====================================================

Truck ID: 1018 --- Brand: Man --- Status: Free,

Capacity: 37000

Range: 10000

=====================================================

Truck ID: 1019 --- Brand: Man --- Status: Free,

Capacity: 37000

Range: 10000

=====================================================

Truck ID: 1020 --- Brand: Man --- Status: Free,

Capacity: 37000

Range: 10000

=====================================================

Truck ID: 1021 --- Brand: Man --- Status: Free,

Capacity: 37000

Range: 10000

=====================================================

Truck ID: 1022 --- Brand: Man --- Status: Free,

Capacity: 37000

Range: 10000

=====================================================

Truck ID: 1023 --- Brand: Man --- Status: Free,

Capacity: 37000

Range: 10000

=====================================================

Truck ID: 1024 --- Brand: Man --- Status: Free,

Capacity: 37000

Range: 10000

=====================================================

Truck ID: 1025 --- Brand: Man --- Status: Free,

Capacity: 37000

Range: 10000

=====================================================

Truck ID: 1026 --- Brand: Actros --- Status: Free,

Capacity: 26000

Range: 13000

=====================================================

Truck ID: 1027 --- Brand: Actros --- Status: Free,

Capacity: 26000

Range: 13000

=====================================================

Truck ID: 1028 --- Brand: Actros --- Status: Free,

Capacity: 26000

Range: 13000

=====================================================

Truck ID: 1029 --- Brand: Actros --- Status: Free,

Capacity: 26000

Range: 13000

=====================================================

Truck ID: 1030 --- Brand: Actros --- Status: Free,

Capacity: 26000

Range: 13000

=====================================================

Truck ID: 1031 --- Brand: Actros --- Status: Free,

Capacity: 26000

Range: 13000

=====================================================

Truck ID: 1032 --- Brand: Actros --- Status: Free,

Capacity: 26000

Range: 13000

=====================================================

Truck ID: 1033 --- Brand: Actros --- Status: Free,

Capacity: 26000

Range: 13000

=====================================================

Truck ID: 1034 --- Brand: Actros --- Status: Free,

Capacity: 26000

Range: 13000

=====================================================

Truck ID: 1035 --- Brand: Actros --- Status: Free,

Capacity: 26000

Range: 13000

=====================================================

Truck ID: 1036 --- Brand: Actros --- Status: Free,

Capacity: 26000

Range: 13000

=====================================================

Truck ID: 1037 --- Brand: Actros --- Status: Free,

Capacity: 26000

Range: 13000

=====================================================

Truck ID: 1038 --- Brand: Actros --- Status: Free,

Capacity: 26000

Range: 13000

=====================================================

Truck ID: 1039 --- Brand: Actros --- Status: Free,

Capacity: 26000

Range: 13000

=====================================================

Truck ID: 1040 --- Brand: Actros --- Status: Free,

Capacity: 26000

Range: 13000

=====================================================

Route with ID: 1 has been created!

RouteID: 1

Route status: Open

Route locations: AliceSprings (21/02 Wednesday @ 06:00) → Adelaide 21/02 Wednesday @ 23:00 → Melbourne 22/02 Thursday @ 07:00 → Sydney 22/02 Thursday @ 17:00 → Bristbane 23/02 Friday @ 03:00

Route total distnce: 4041 km

Route capacity: No packages assigned.

Route start date: 21/02 Wednesday @ 06:00

Route final ETA: 23/02 Friday @ 03:00

PackageID: No packages assigned.

TruckID: No truck assigned.

No routes to view!

Available trucks: Truck ID: 1001 --- Brand: Scania --- Status: Free,

Capacity: 42000

Range: 8000

=====================================================

Truck ID: 1002 --- Brand: Scania --- Status: Free,

Capacity: 42000

Range: 8000

=====================================================

Truck ID: 1003 --- Brand: Scania --- Status: Free,

Capacity: 42000

Range: 8000

=====================================================

Truck ID: 1004 --- Brand: Scania --- Status: Free,

Capacity: 42000

Range: 8000

=====================================================

Truck ID: 1005 --- Brand: Scania --- Status: Free,

Capacity: 42000

Range: 8000

=====================================================

Truck ID: 1006 --- Brand: Scania --- Status: Free,

Capacity: 42000

Range: 8000

=====================================================

Truck ID: 1007 --- Brand: Scania --- Status: Free,

Capacity: 42000

Range: 8000

=====================================================

Truck ID: 1008 --- Brand: Scania --- Status: Free,

Capacity: 42000

Range: 8000

=====================================================

Truck ID: 1009 --- Brand: Scania --- Status: Free,

Capacity: 42000

Range: 8000

=====================================================

Truck ID: 1010 --- Brand: Scania --- Status: Free,

Capacity: 42000

Range: 8000

=====================================================

Truck ID: 1011 --- Brand: Man --- Status: Free,

Capacity: 37000

Range: 10000

=====================================================

Truck ID: 1012 --- Brand: Man --- Status: Free,

Capacity: 37000

Range: 10000

=====================================================

Truck ID: 1013 --- Brand: Man --- Status: Free,

Capacity: 37000

Range: 10000

=====================================================

Truck ID: 1014 --- Brand: Man --- Status: Free,

Capacity: 37000

Range: 10000

=====================================================

Truck ID: 1015 --- Brand: Man --- Status: Free,

Capacity: 37000

Range: 10000

=====================================================

Truck ID: 1016 --- Brand: Man --- Status: Free,

Capacity: 37000

Range: 10000

=====================================================

Truck ID: 1017 --- Brand: Man --- Status: Free,

Capacity: 37000

Range: 10000

=====================================================

Truck ID: 1018 --- Brand: Man --- Status: Free,

Capacity: 37000

Range: 10000

=====================================================

Truck ID: 1019 --- Brand: Man --- Status: Free,

Capacity: 37000

Range: 10000

=====================================================

Truck ID: 1020 --- Brand: Man --- Status: Free,

Capacity: 37000

Range: 10000

=====================================================

Truck ID: 1021 --- Brand: Man --- Status: Free,

Capacity: 37000

Range: 10000

=====================================================

Truck ID: 1022 --- Brand: Man --- Status: Free,

Capacity: 37000

Range: 10000

=====================================================

Truck ID: 1023 --- Brand: Man --- Status: Free,

Capacity: 37000

Range: 10000

=====================================================

Truck ID: 1024 --- Brand: Man --- Status: Free,

Capacity: 37000

Range: 10000

=====================================================

Truck ID: 1025 --- Brand: Man --- Status: Free,

Capacity: 37000

Range: 10000

=====================================================

Truck ID: 1026 --- Brand: Actros --- Status: Free,

Capacity: 26000

Range: 13000

=====================================================

Truck ID: 1027 --- Brand: Actros --- Status: Free,

Capacity: 26000

Range: 13000

=====================================================

Truck ID: 1028 --- Brand: Actros --- Status: Free,

Capacity: 26000

Range: 13000

=====================================================

Truck ID: 1029 --- Brand: Actros --- Status: Free,

Capacity: 26000

Range: 13000

=====================================================

Truck ID: 1030 --- Brand: Actros --- Status: Free,

Capacity: 26000

Range: 13000

=====================================================

Truck ID: 1031 --- Brand: Actros --- Status: Free,

Capacity: 26000

Range: 13000

=====================================================

Truck ID: 1032 --- Brand: Actros --- Status: Free,

Capacity: 26000

Range: 13000

=====================================================

Truck ID: 1033 --- Brand: Actros --- Status: Free,

Capacity: 26000

Range: 13000

=====================================================

Truck ID: 1034 --- Brand: Actros --- Status: Free,

Capacity: 26000

Range: 13000

=====================================================

Truck ID: 1035 --- Brand: Actros --- Status: Free,

Capacity: 26000

Range: 13000

=====================================================

Truck ID: 1036 --- Brand: Actros --- Status: Free,

Capacity: 26000

Range: 13000

=====================================================

Truck ID: 1037 --- Brand: Actros --- Status: Free,

Capacity: 26000

Range: 13000

=====================================================

Truck ID: 1038 --- Brand: Actros --- Status: Free,

Capacity: 26000

Range: 13000

=====================================================

Truck ID: 1039 --- Brand: Actros --- Status: Free,

Capacity: 26000

Range: 13000

=====================================================

Truck ID: 1040 --- Brand: Actros --- Status: Free,

Capacity: 26000

Range: 13000

=====================================================

Truck with ID: 1001 has been added to route with ID: 1

Route with ID: 1 has been updated with status: Scheduled!

RouteID: 1

Route status: Scheduled

Route locations: AliceSprings (21/02 Wednesday @ 06:00) → Adelaide 21/02 Wednesday @ 23:00 → Melbourne 22/02 Thursday @ 07:00 → Sydney 22/02 Thursday @ 17:00 → Bristbane 23/02 Friday @ 03:00

Route total distnce: 4041 km

Route capacity: No packages assigned.

Route start date: 21/02 Wednesday @ 06:00

Route final ETA: 23/02 Friday @ 03:00

PackageID: No packages assigned.

TruckID: 1001

RouteID: 1

Route status: Scheduled

Route locations: AliceSprings (21/02 Wednesday @ 06:00) → Adelaide 21/02 Wednesday @ 23:00 → Melbourne 22/02 Thursday @ 07:00 → Sydney 22/02 Thursday @ 17:00 → Bristbane 23/02 Friday @ 03:00

Route total distnce: 4041

Route capacity: 0

Route start date: 21/02 Wednesday @ 06:00

Route final ETA: 23/02 Friday @ 03:00

Route current ETA: Truck hasn't left yet!

Truck with ID: 1001 has been removed from route with ID: 1!

Route with ID: 1 has been updated with status: Cancelled!

RouteID: 1

Route status: Cancelled

Route locations: AliceSprings (21/02 Wednesday @ 06:00) → Adelaide 21/02 Wednesday @ 23:00 → Melbourne 22/02 Thursday @ 07:00 → Sydney 22/02 Thursday @ 17:00 → Bristbane 23/02 Friday @ 03:00

Route total distnce: 4041 km

Route capacity: No packages assigned.

Route start date: 21/02 Wednesday @ 06:00

Route final ETA: 23/02 Friday @ 03:00

PackageID: No packages assigned.

TruckID: No truck assigned.

RouteID: 1

Route status: Cancelled

Route locations: AliceSprings (21/02 Wednesday @ 06:00) → Adelaide 21/02 Wednesday @ 23:00 → Melbourne 22/02 Thursday @ 07:00 → Sydney 22/02 Thursday @ 17:00 → Bristbane 23/02 Friday @ 03:00

Route total distnce: 4041

Route capacity: 0

Route start date: 21/02 Wednesday @ 06:00

Route final ETA: 23/02 Friday @ 03:00

Route current ETA: Truck hasn't left yet!

Route with ID: 1 has been cancelled!

Route with ID: 1 not found!

Route with ID: 1 not found!

***Experiment 2:***

***Input:***

CreateRoute AliceSprings Adelaide Melbourne Sydney Bristbane

CreatePackage AliceSprings Adelaide 45 steven1

FindRoute AliceSprings Adelaide

AddPackageToRoute 1 1

UpdateRoute 1

InfoRoute 1

RemovePackageFromRoute 1 1

UpdateRoute 1

InfoRoute 1

Cancelroute 1

UpdateRoute 1

InfoRoute 1

End

***Output:***

Route with ID: 1 has been created!

Package 1 from AliceSprings to Adelaide of the steven1, 45 kg accepted in AliceSprings Hub.

Route locations: AliceSprings (21/02 Wednesday @ 06:00) → Adelaide 21/02 Wednesday @ 23:00 → Melbourne 22/02 Thursday @ 07:00 → Sydney 22/02 Thursday @ 17:00 → Bristbane 23/02 Friday @ 03:00

Pakcage with ID: 1 has been added to route with ID: 1!

Route with ID: 1 has been updated with status: Scheduled!

RouteID: 1

Route status: Scheduled

Route locations: AliceSprings (21/02 Wednesday @ 06:00) → Adelaide 21/02 Wednesday @ 23:00 → Melbourne 22/02 Thursday @ 07:00 → Sydney 22/02 Thursday @ 17:00 → Bristbane 23/02 Friday @ 03:00

Route total distnce: 4041 km

Route capacity: 45 kg

Route start date: 21/02 Wednesday @ 06:00

Route final ETA: 23/02 Friday @ 03:00

PackageID: 1

TruckID: No truck assigned.

Pakcage with ID: 1 has been removed from route with ID: 1!

Route with ID: 1 has been updated with status: Cancelled!

RouteID: 1

Route status: Cancelled

Route locations: AliceSprings (21/02 Wednesday @ 06:00) → Adelaide 21/02 Wednesday @ 23:00 → Melbourne 22/02 Thursday @ 07:00 → Sydney 22/02 Thursday @ 17:00 → Bristbane 23/02 Friday @ 03:00

Route total distnce: 4041 km

Route capacity: No packages assigned.

Route start date: 21/02 Wednesday @ 06:00

Route final ETA: 23/02 Friday @ 03:00

PackageID: No packages assigned.

TruckID: No truck assigned.

Route with ID: 1 has been cancelled!

Route with ID: 1 not found!

Route with ID: 1 not found!

***Experiment 3:***

***Input:***

CreateTrucks

CreateRoute AliceSprings Adelaide Melbourne Sydney Bristbane

CreateRoute AliceSprings Adelaide Melbourne Sydney

CreateRoute AliceSprings Adelaide Bristbane

CreateRoute Darwin AliceSprings Perth

CreateRoute Adelaide Sydney Bristbane

CreateRoute Melbourne Sydney Bristbane

CreateRoute Adelaide Melbourne Sydney

InfoRoute 1

Findtruck

AddTruckToRoute 1 1001

InfoRoute 2

Findtruck

AddTruckToRoute 2 1002

InfoRoute 3

Findtruck

AddTruckToRoute 3 1011

createpackage AliceSprings Adelaide 125 rgervais

createpackage AliceSprings Adelaide 140 rgervais

createpackage AliceSprings Adelaide 50 rgervais

FindRoute AliceSprings Adelaide

AddPackageToRoute 1 1

AddPackageToRoute 1 2

AddPackageToRoute 1 3

createpackage Melbourne Sydney 85 steve1

FindRoute AliceSprings Adelaide

AddPackageToRoute 2 4

UpdateRoute 1

UpdateRoute 2

InfoRoute 1

InfoRoute 2

ViewRoute Scheduled

End

***Output:***

Truck ID: 1001 --- Brand: Scania --- Status: Free,

Capacity: 42000

Range: 8000

=====================================================

Truck ID: 1002 --- Brand: Scania --- Status: Free,

Capacity: 42000

Range: 8000

=====================================================

Truck ID: 1003 --- Brand: Scania --- Status: Free,

Capacity: 42000

Range: 8000

=====================================================

Truck ID: 1004 --- Brand: Scania --- Status: Free,

Capacity: 42000

Range: 8000

=====================================================

Truck ID: 1005 --- Brand: Scania --- Status: Free,

Capacity: 42000

Range: 8000

=====================================================

Truck ID: 1006 --- Brand: Scania --- Status: Free,

Capacity: 42000

Range: 8000

=====================================================

Truck ID: 1007 --- Brand: Scania --- Status: Free,

Capacity: 42000

Range: 8000

=====================================================

Truck ID: 1008 --- Brand: Scania --- Status: Free,

Capacity: 42000

Range: 8000

=====================================================

Truck ID: 1009 --- Brand: Scania --- Status: Free,

Capacity: 42000

Range: 8000

=====================================================

Truck ID: 1010 --- Brand: Scania --- Status: Free,

Capacity: 42000

Range: 8000

=====================================================

Truck ID: 1011 --- Brand: Man --- Status: Free,

Capacity: 37000

Range: 10000

=====================================================

Truck ID: 1012 --- Brand: Man --- Status: Free,

Capacity: 37000

Range: 10000

=====================================================

Truck ID: 1013 --- Brand: Man --- Status: Free,

Capacity: 37000

Range: 10000

=====================================================

Truck ID: 1014 --- Brand: Man --- Status: Free,

Capacity: 37000

Range: 10000

=====================================================

Truck ID: 1015 --- Brand: Man --- Status: Free,

Capacity: 37000

Range: 10000

=====================================================

Truck ID: 1016 --- Brand: Man --- Status: Free,

Capacity: 37000

Range: 10000

=====================================================

Truck ID: 1017 --- Brand: Man --- Status: Free,

Capacity: 37000

Range: 10000

=====================================================

Truck ID: 1018 --- Brand: Man --- Status: Free,

Capacity: 37000

Range: 10000

=====================================================

Truck ID: 1019 --- Brand: Man --- Status: Free,

Capacity: 37000

Range: 10000

=====================================================

Truck ID: 1020 --- Brand: Man --- Status: Free,

Capacity: 37000

Range: 10000

=====================================================

Truck ID: 1021 --- Brand: Man --- Status: Free,

Capacity: 37000

Range: 10000

=====================================================

Truck ID: 1022 --- Brand: Man --- Status: Free,

Capacity: 37000

Range: 10000

=====================================================

Truck ID: 1023 --- Brand: Man --- Status: Free,

Capacity: 37000

Range: 10000

=====================================================

Truck ID: 1024 --- Brand: Man --- Status: Free,

Capacity: 37000

Range: 10000

=====================================================

Truck ID: 1025 --- Brand: Man --- Status: Free,

Capacity: 37000

Range: 10000

=====================================================

Truck ID: 1026 --- Brand: Actros --- Status: Free,

Capacity: 26000

Range: 13000

=====================================================

Truck ID: 1027 --- Brand: Actros --- Status: Free,

Capacity: 26000

Range: 13000

=====================================================

Truck ID: 1028 --- Brand: Actros --- Status: Free,

Capacity: 26000

Range: 13000

=====================================================

Truck ID: 1029 --- Brand: Actros --- Status: Free,

Capacity: 26000

Range: 13000

=====================================================

Truck ID: 1030 --- Brand: Actros --- Status: Free,

Capacity: 26000

Range: 13000

=====================================================

Truck ID: 1031 --- Brand: Actros --- Status: Free,

Capacity: 26000

Range: 13000

=====================================================

Truck ID: 1032 --- Brand: Actros --- Status: Free,

Capacity: 26000

Range: 13000

=====================================================

Truck ID: 1033 --- Brand: Actros --- Status: Free,

Capacity: 26000

Range: 13000

=====================================================

Truck ID: 1034 --- Brand: Actros --- Status: Free,

Capacity: 26000

Range: 13000

=====================================================

Truck ID: 1035 --- Brand: Actros --- Status: Free,

Capacity: 26000

Range: 13000

=====================================================

Truck ID: 1036 --- Brand: Actros --- Status: Free,

Capacity: 26000

Range: 13000

=====================================================

Truck ID: 1037 --- Brand: Actros --- Status: Free,

Capacity: 26000

Range: 13000

=====================================================

Truck ID: 1038 --- Brand: Actros --- Status: Free,

Capacity: 26000

Range: 13000

=====================================================

Truck ID: 1039 --- Brand: Actros --- Status: Free,

Capacity: 26000

Range: 13000

=====================================================

Truck ID: 1040 --- Brand: Actros --- Status: Free,

Capacity: 26000

Range: 13000

=====================================================

Route with ID: 1 has been created!

Route with ID: 2 has been created!

Route with ID: 3 has been created!

Route with ID: 4 has been created!

Route with ID: 5 has been created!

Route with ID: 6 has been created!

Route with ID: 7 has been created!

RouteID: 1

Route status: Open

Route locations: AliceSprings (21/02 Wednesday @ 06:00) → Adelaide 21/02 Wednesday @ 23:00 → Melbourne 22/02 Thursday @ 07:00 → Sydney 22/02 Thursday @ 17:00 → Bristbane 23/02 Friday @ 03:00

Route total distnce: 4041 km

Route capacity: No packages assigned.

Route start date: 21/02 Wednesday @ 06:00

Route final ETA: 23/02 Friday @ 03:00

PackageID: No packages assigned.

TruckID: No truck assigned.

Available trucks: Truck ID: 1001 --- Brand: Scania --- Status: Free,

Capacity: 42000

Range: 8000

=====================================================

Truck ID: 1002 --- Brand: Scania --- Status: Free,

Capacity: 42000

Range: 8000

=====================================================

Truck ID: 1003 --- Brand: Scania --- Status: Free,

Capacity: 42000

Range: 8000

=====================================================

Truck ID: 1004 --- Brand: Scania --- Status: Free,

Capacity: 42000

Range: 8000

=====================================================

Truck ID: 1005 --- Brand: Scania --- Status: Free,

Capacity: 42000

Range: 8000

=====================================================

Truck ID: 1006 --- Brand: Scania --- Status: Free,

Capacity: 42000

Range: 8000

=====================================================

Truck ID: 1007 --- Brand: Scania --- Status: Free,

Capacity: 42000

Range: 8000

=====================================================

Truck ID: 1008 --- Brand: Scania --- Status: Free,

Capacity: 42000

Range: 8000

=====================================================

Truck ID: 1009 --- Brand: Scania --- Status: Free,

Capacity: 42000

Range: 8000

=====================================================

Truck ID: 1010 --- Brand: Scania --- Status: Free,

Capacity: 42000

Range: 8000

=====================================================

Truck ID: 1011 --- Brand: Man --- Status: Free,

Capacity: 37000

Range: 10000

=====================================================

Truck ID: 1012 --- Brand: Man --- Status: Free,

Capacity: 37000

Range: 10000

=====================================================

Truck ID: 1013 --- Brand: Man --- Status: Free,

Capacity: 37000

Range: 10000

=====================================================

Truck ID: 1014 --- Brand: Man --- Status: Free,

Capacity: 37000

Range: 10000

=====================================================

Truck ID: 1015 --- Brand: Man --- Status: Free,

Capacity: 37000

Range: 10000

=====================================================

Truck ID: 1016 --- Brand: Man --- Status: Free,

Capacity: 37000

Range: 10000

=====================================================

Truck ID: 1017 --- Brand: Man --- Status: Free,

Capacity: 37000

Range: 10000

=====================================================

Truck ID: 1018 --- Brand: Man --- Status: Free,

Capacity: 37000

Range: 10000

=====================================================

Truck ID: 1019 --- Brand: Man --- Status: Free,

Capacity: 37000

Range: 10000

=====================================================

Truck ID: 1020 --- Brand: Man --- Status: Free,

Capacity: 37000

Range: 10000

=====================================================

Truck ID: 1021 --- Brand: Man --- Status: Free,

Capacity: 37000

Range: 10000

=====================================================

Truck ID: 1022 --- Brand: Man --- Status: Free,

Capacity: 37000

Range: 10000

=====================================================

Truck ID: 1023 --- Brand: Man --- Status: Free,

Capacity: 37000

Range: 10000

=====================================================

Truck ID: 1024 --- Brand: Man --- Status: Free,

Capacity: 37000

Range: 10000

=====================================================

Truck ID: 1025 --- Brand: Man --- Status: Free,

Capacity: 37000

Range: 10000

=====================================================

Truck ID: 1026 --- Brand: Actros --- Status: Free,

Capacity: 26000

Range: 13000

=====================================================

Truck ID: 1027 --- Brand: Actros --- Status: Free,

Capacity: 26000

Range: 13000

=====================================================

Truck ID: 1028 --- Brand: Actros --- Status: Free,

Capacity: 26000

Range: 13000

=====================================================

Truck ID: 1029 --- Brand: Actros --- Status: Free,

Capacity: 26000

Range: 13000

=====================================================

Truck ID: 1030 --- Brand: Actros --- Status: Free,

Capacity: 26000

Range: 13000

=====================================================

Truck ID: 1031 --- Brand: Actros --- Status: Free,

Capacity: 26000

Range: 13000

=====================================================

Truck ID: 1032 --- Brand: Actros --- Status: Free,

Capacity: 26000

Range: 13000

=====================================================

Truck ID: 1033 --- Brand: Actros --- Status: Free,

Capacity: 26000

Range: 13000

=====================================================

Truck ID: 1034 --- Brand: Actros --- Status: Free,

Capacity: 26000

Range: 13000

=====================================================

Truck ID: 1035 --- Brand: Actros --- Status: Free,

Capacity: 26000

Range: 13000

=====================================================

Truck ID: 1036 --- Brand: Actros --- Status: Free,

Capacity: 26000

Range: 13000

=====================================================

Truck ID: 1037 --- Brand: Actros --- Status: Free,

Capacity: 26000

Range: 13000

=====================================================

Truck ID: 1038 --- Brand: Actros --- Status: Free,

Capacity: 26000

Range: 13000

=====================================================

Truck ID: 1039 --- Brand: Actros --- Status: Free,

Capacity: 26000

Range: 13000

=====================================================

Truck ID: 1040 --- Brand: Actros --- Status: Free,

Capacity: 26000

Range: 13000

=====================================================

Truck with ID: 1001 has been added to route with ID: 1

RouteID: 2

Route status: Open

Route locations: AliceSprings (21/02 Wednesday @ 06:00) → Adelaide 21/02 Wednesday @ 23:00 → Melbourne 22/02 Thursday @ 07:00 → Sydney 22/02 Thursday @ 17:00

Route total distnce: 3132 km

Route capacity: No packages assigned.

Route start date: 21/02 Wednesday @ 06:00

Route final ETA: 22/02 Thursday @ 17:00

PackageID: No packages assigned.

TruckID: No truck assigned.

Available trucks: Truck ID: 1001 --- Brand: Scania --- Status: Free,

Capacity: 42000

Range: 8000

=====================================================

Truck ID: 1002 --- Brand: Scania --- Status: Free,

Capacity: 42000

Range: 8000

=====================================================

Truck ID: 1003 --- Brand: Scania --- Status: Free,

Capacity: 42000

Range: 8000

=====================================================

Truck ID: 1004 --- Brand: Scania --- Status: Free,

Capacity: 42000

Range: 8000

=====================================================

Truck ID: 1005 --- Brand: Scania --- Status: Free,

Capacity: 42000

Range: 8000

=====================================================

Truck ID: 1006 --- Brand: Scania --- Status: Free,

Capacity: 42000

Range: 8000

=====================================================

Truck ID: 1007 --- Brand: Scania --- Status: Free,

Capacity: 42000

Range: 8000

=====================================================

Truck ID: 1008 --- Brand: Scania --- Status: Free,

Capacity: 42000

Range: 8000

=====================================================

Truck ID: 1009 --- Brand: Scania --- Status: Free,

Capacity: 42000

Range: 8000

=====================================================

Truck ID: 1010 --- Brand: Scania --- Status: Free,

Capacity: 42000

Range: 8000

=====================================================

Truck ID: 1011 --- Brand: Man --- Status: Free,

Capacity: 37000

Range: 10000

=====================================================

Truck ID: 1012 --- Brand: Man --- Status: Free,

Capacity: 37000

Range: 10000

=====================================================

Truck ID: 1013 --- Brand: Man --- Status: Free,

Capacity: 37000

Range: 10000

=====================================================

Truck ID: 1014 --- Brand: Man --- Status: Free,

Capacity: 37000

Range: 10000

=====================================================

Truck ID: 1015 --- Brand: Man --- Status: Free,

Capacity: 37000

Range: 10000

=====================================================

Truck ID: 1016 --- Brand: Man --- Status: Free,

Capacity: 37000

Range: 10000

=====================================================

Truck ID: 1017 --- Brand: Man --- Status: Free,

Capacity: 37000

Range: 10000

=====================================================

Truck ID: 1018 --- Brand: Man --- Status: Free,

Capacity: 37000

Range: 10000

=====================================================

Truck ID: 1019 --- Brand: Man --- Status: Free,

Capacity: 37000

Range: 10000

=====================================================

Truck ID: 1020 --- Brand: Man --- Status: Free,

Capacity: 37000

Range: 10000

=====================================================

Truck ID: 1021 --- Brand: Man --- Status: Free,

Capacity: 37000

Range: 10000

=====================================================

Truck ID: 1022 --- Brand: Man --- Status: Free,

Capacity: 37000

Range: 10000

=====================================================

Truck ID: 1023 --- Brand: Man --- Status: Free,

Capacity: 37000

Range: 10000

=====================================================

Truck ID: 1024 --- Brand: Man --- Status: Free,

Capacity: 37000

Range: 10000

=====================================================

Truck ID: 1025 --- Brand: Man --- Status: Free,

Capacity: 37000

Range: 10000

=====================================================

Truck ID: 1026 --- Brand: Actros --- Status: Free,

Capacity: 26000

Range: 13000

=====================================================

Truck ID: 1027 --- Brand: Actros --- Status: Free,

Capacity: 26000

Range: 13000

=====================================================

Truck ID: 1028 --- Brand: Actros --- Status: Free,

Capacity: 26000

Range: 13000

=====================================================

Truck ID: 1029 --- Brand: Actros --- Status: Free,

Capacity: 26000

Range: 13000

=====================================================

Truck ID: 1030 --- Brand: Actros --- Status: Free,

Capacity: 26000

Range: 13000

=====================================================

Truck ID: 1031 --- Brand: Actros --- Status: Free,

Capacity: 26000

Range: 13000

=====================================================

Truck ID: 1032 --- Brand: Actros --- Status: Free,

Capacity: 26000

Range: 13000

=====================================================

Truck ID: 1033 --- Brand: Actros --- Status: Free,

Capacity: 26000

Range: 13000

=====================================================

Truck ID: 1034 --- Brand: Actros --- Status: Free,

Capacity: 26000

Range: 13000

=====================================================

Truck ID: 1035 --- Brand: Actros --- Status: Free,

Capacity: 26000

Range: 13000

=====================================================

Truck ID: 1036 --- Brand: Actros --- Status: Free,

Capacity: 26000

Range: 13000

=====================================================

Truck ID: 1037 --- Brand: Actros --- Status: Free,

Capacity: 26000

Range: 13000

=====================================================

Truck ID: 1038 --- Brand: Actros --- Status: Free,

Capacity: 26000

Range: 13000

=====================================================

Truck ID: 1039 --- Brand: Actros --- Status: Free,

Capacity: 26000

Range: 13000

=====================================================

Truck ID: 1040 --- Brand: Actros --- Status: Free,

Capacity: 26000

Range: 13000

=====================================================

Truck with ID: 1002 has been added to route with ID: 2

RouteID: 3

Route status: Open

Route locations: AliceSprings (21/02 Wednesday @ 06:00) → Adelaide 21/02 Wednesday @ 23:00 → Bristbane 22/02 Thursday @ 21:00

Route total distnce: 3457 km

Route capacity: No packages assigned.

Route start date: 21/02 Wednesday @ 06:00

Route final ETA: 22/02 Thursday @ 21:00

PackageID: No packages assigned.

TruckID: No truck assigned.

Available trucks: Truck ID: 1001 --- Brand: Scania --- Status: Free,

Capacity: 42000

Range: 8000

=====================================================

Truck ID: 1002 --- Brand: Scania --- Status: Free,

Capacity: 42000

Range: 8000

=====================================================

Truck ID: 1003 --- Brand: Scania --- Status: Free,

Capacity: 42000

Range: 8000

=====================================================

Truck ID: 1004 --- Brand: Scania --- Status: Free,

Capacity: 42000

Range: 8000

=====================================================

Truck ID: 1005 --- Brand: Scania --- Status: Free,

Capacity: 42000

Range: 8000

=====================================================

Truck ID: 1006 --- Brand: Scania --- Status: Free,

Capacity: 42000

Range: 8000

=====================================================

Truck ID: 1007 --- Brand: Scania --- Status: Free,

Capacity: 42000

Range: 8000

=====================================================

Truck ID: 1008 --- Brand: Scania --- Status: Free,

Capacity: 42000

Range: 8000

=====================================================

Truck ID: 1009 --- Brand: Scania --- Status: Free,

Capacity: 42000

Range: 8000

=====================================================

Truck ID: 1010 --- Brand: Scania --- Status: Free,

Capacity: 42000

Range: 8000

=====================================================

Truck ID: 1011 --- Brand: Man --- Status: Free,

Capacity: 37000

Range: 10000

=====================================================

Truck ID: 1012 --- Brand: Man --- Status: Free,

Capacity: 37000

Range: 10000

=====================================================

Truck ID: 1013 --- Brand: Man --- Status: Free,

Capacity: 37000

Range: 10000

=====================================================

Truck ID: 1014 --- Brand: Man --- Status: Free,

Capacity: 37000

Range: 10000

=====================================================

Truck ID: 1015 --- Brand: Man --- Status: Free,

Capacity: 37000

Range: 10000

=====================================================

Truck ID: 1016 --- Brand: Man --- Status: Free,

Capacity: 37000

Range: 10000

=====================================================

Truck ID: 1017 --- Brand: Man --- Status: Free,

Capacity: 37000

Range: 10000

=====================================================

Truck ID: 1018 --- Brand: Man --- Status: Free,

Capacity: 37000

Range: 10000

=====================================================

Truck ID: 1019 --- Brand: Man --- Status: Free,

Capacity: 37000

Range: 10000

=====================================================

Truck ID: 1020 --- Brand: Man --- Status: Free,

Capacity: 37000

Range: 10000

=====================================================

Truck ID: 1021 --- Brand: Man --- Status: Free,

Capacity: 37000

Range: 10000

=====================================================

Truck ID: 1022 --- Brand: Man --- Status: Free,

Capacity: 37000

Range: 10000

=====================================================

Truck ID: 1023 --- Brand: Man --- Status: Free,

Capacity: 37000

Range: 10000

=====================================================

Truck ID: 1024 --- Brand: Man --- Status: Free,

Capacity: 37000

Range: 10000

=====================================================

Truck ID: 1025 --- Brand: Man --- Status: Free,

Capacity: 37000

Range: 10000

=====================================================

Truck ID: 1026 --- Brand: Actros --- Status: Free,

Capacity: 26000

Range: 13000

=====================================================

Truck ID: 1027 --- Brand: Actros --- Status: Free,

Capacity: 26000

Range: 13000

=====================================================

Truck ID: 1028 --- Brand: Actros --- Status: Free,

Capacity: 26000

Range: 13000

=====================================================

Truck ID: 1029 --- Brand: Actros --- Status: Free,

Capacity: 26000

Range: 13000

=====================================================

Truck ID: 1030 --- Brand: Actros --- Status: Free,

Capacity: 26000

Range: 13000

=====================================================

Truck ID: 1031 --- Brand: Actros --- Status: Free,

Capacity: 26000

Range: 13000

=====================================================

Truck ID: 1032 --- Brand: Actros --- Status: Free,

Capacity: 26000

Range: 13000

=====================================================

Truck ID: 1033 --- Brand: Actros --- Status: Free,

Capacity: 26000

Range: 13000

=====================================================

Truck ID: 1034 --- Brand: Actros --- Status: Free,

Capacity: 26000

Range: 13000

=====================================================

Truck ID: 1035 --- Brand: Actros --- Status: Free,

Capacity: 26000

Range: 13000

=====================================================

Truck ID: 1036 --- Brand: Actros --- Status: Free,

Capacity: 26000

Range: 13000

=====================================================

Truck ID: 1037 --- Brand: Actros --- Status: Free,

Capacity: 26000

Range: 13000

=====================================================

Truck ID: 1038 --- Brand: Actros --- Status: Free,

Capacity: 26000

Range: 13000

=====================================================

Truck ID: 1039 --- Brand: Actros --- Status: Free,

Capacity: 26000

Range: 13000

=====================================================

Truck ID: 1040 --- Brand: Actros --- Status: Free,

Capacity: 26000

Range: 13000

=====================================================

Truck with ID: 1011 has been added to route with ID: 3

Package 1 from AliceSprings to Adelaide of the rgervais, 125 kg accepted in AliceSprings Hub.

Package 2 from AliceSprings to Adelaide of the rgervais, 140 kg accepted in AliceSprings Hub.

Package 3 from AliceSprings to Adelaide of the rgervais, 50 kg accepted in AliceSprings Hub.

Route locations: AliceSprings (21/02 Wednesday @ 06:00) → Adelaide 21/02 Wednesday @ 23:00 → Melbourne 22/02 Thursday @ 07:00 → Sydney 22/02 Thursday @ 17:00 → Bristbane 23/02 Friday @ 03:00

Pakcage with ID: 1 has been added to route with ID: 1!

Pakcage with ID: 2 has been added to route with ID: 1!

Pakcage with ID: 3 has been added to route with ID: 1!

Package 4 from Melbourne to Sydney of the steve1, 85 kg accepted in Melbourne Hub.

Route locations: AliceSprings (21/02 Wednesday @ 06:00) → Adelaide 21/02 Wednesday @ 23:00 → Melbourne 22/02 Thursday @ 07:00 → Sydney 22/02 Thursday @ 17:00 → Bristbane 23/02 Friday @ 03:00

Pakcage with ID: 4 has been added to route with ID: 2!

Route with ID: 1 has been updated with status: Scheduled!

Route with ID: 2 has been updated with status: Scheduled!

RouteID: 1

Route status: Scheduled

Route locations: AliceSprings (21/02 Wednesday @ 06:00) → Adelaide 21/02 Wednesday @ 23:00 → Melbourne 22/02 Thursday @ 07:00 → Sydney 22/02 Thursday @ 17:00 → Bristbane 23/02 Friday @ 03:00

Route total distnce: 4041 km

Route capacity: 315 kg

Route start date: 21/02 Wednesday @ 06:00

Route final ETA: 23/02 Friday @ 03:00

PackageID: 1,2,3

TruckID: 1001

RouteID: 2

Route status: Scheduled

Route locations: AliceSprings (21/02 Wednesday @ 06:00) → Adelaide 21/02 Wednesday @ 23:00 → Melbourne 22/02 Thursday @ 07:00 → Sydney 22/02 Thursday @ 17:00

Route total distnce: 3132 km

Route capacity: 85 kg

Route start date: 21/02 Wednesday @ 06:00

Route final ETA: 22/02 Thursday @ 17:00

PackageID: 4

TruckID: 1002

RouteID: 1

Route status: Scheduled

Route locations: AliceSprings (21/02 Wednesday @ 06:00) → Adelaide 21/02 Wednesday @ 23:00 → Melbourne 22/02 Thursday @ 07:00 → Sydney 22/02 Thursday @ 17:00 → Bristbane 23/02 Friday @ 03:00

Route total distnce: 4041 km

Route capacity: 315 kg

Route start date: 21/02 Wednesday @ 06:00

Route final ETA: 23/02 Friday @ 03:00

Route current ETA: Truck hasn't left yet!

RouteID: 2

Route status: Scheduled

Route locations: AliceSprings (21/02 Wednesday @ 06:00) → Adelaide 21/02 Wednesday @ 23:00 → Melbourne 22/02 Thursday @ 07:00 → Sydney 22/02 Thursday @ 17:00

Route total distnce: 3132 km

Route capacity: 85 kg

Route start date: 21/02 Wednesday @ 06:00

Route final ETA: 22/02 Thursday @ 17:00

Route current ETA: Truck hasn't left yet!

**Alex commands - Input/Output:**

**Final input**

Createtrucks

findtruck

infotruck 1001

updatetruck 1001

infotruck 1001

updatetruck 1001

infotruck 1001

end

**Final output**

Truck ID: 1001 --- Brand: Scania --- Status: Free, Capacity: 42000 Range: 8000 =====================================================

Truck ID: 1002 --- Brand: Scania --- Status: Free, Capacity: 42000 Range: 8000 =====================================================

Truck ID: 1003 --- Brand: Scania --- Status: Free, Capacity: 42000 Range: 8000 =====================================================

Truck ID: 1004 --- Brand: Scania --- Status: Free, Capacity: 42000 Range: 8000 =====================================================

Truck ID: 1005 --- Brand: Scania --- Status: Free, Capacity: 42000 Range: 8000 =====================================================

Truck ID: 1006 --- Brand: Scania --- Status: Free, Capacity: 42000 Range: 8000 =====================================================

Truck ID: 1007 --- Brand: Scania --- Status: Free, Capacity: 42000 Range: 8000 =====================================================

Truck ID: 1008 --- Brand: Scania --- Status: Free, Capacity: 42000 Range: 8000 =====================================================

Truck ID: 1009 --- Brand: Scania --- Status: Free, Capacity: 42000 Range: 8000 =====================================================

Truck ID: 1010 --- Brand: Scania --- Status: Free, Capacity: 42000 Range: 8000 =====================================================

Truck ID: 1011 --- Brand: Man --- Status: Free, Capacity: 37000 Range: 10000 =====================================================

Truck ID: 1012 --- Brand: Man --- Status: Free, Capacity: 37000 Range: 10000 =====================================================

Truck ID: 1013 --- Brand: Man --- Status: Free, Capacity: 37000 Range: 10000 =====================================================

Truck ID: 1014 --- Brand: Man --- Status: Free, Capacity: 37000 Range: 10000 =====================================================

Truck ID: 1015 --- Brand: Man --- Status: Free, Capacity: 37000 Range: 10000 =====================================================

Truck ID: 1016 --- Brand: Man --- Status: Free, Capacity: 37000 Range: 10000 =====================================================

Truck ID: 1017 --- Brand: Man --- Status: Free, Capacity: 37000 Range: 10000 =====================================================

Truck ID: 1018 --- Brand: Man --- Status: Free, Capacity: 37000 Range: 10000 =====================================================

Truck ID: 1019 --- Brand: Man --- Status: Free, Capacity: 37000 Range: 10000 =====================================================

Truck ID: 1020 --- Brand: Man --- Status: Free, Capacity: 37000 Range: 10000 =====================================================

Truck ID: 1021 --- Brand: Man --- Status: Free, Capacity: 37000 Range: 10000 =====================================================

Truck ID: 1022 --- Brand: Man --- Status: Free, Capacity: 37000 Range: 10000 =====================================================

Truck ID: 1023 --- Brand: Man --- Status: Free, Capacity: 37000 Range: 10000 =====================================================

Truck ID: 1024 --- Brand: Man --- Status: Free, Capacity: 37000 Range: 10000 =====================================================

Truck ID: 1025 --- Brand: Man --- Status: Free, Capacity: 37000 Range: 10000 =====================================================

Truck ID: 1026 --- Brand: Actros --- Status: Free, Capacity: 26000 Range: 13000 =====================================================

Truck ID: 1027 --- Brand: Actros --- Status: Free, Capacity: 26000 Range: 13000 =====================================================

Truck ID: 1028 --- Brand: Actros --- Status: Free, Capacity: 26000 Range: 13000 =====================================================

Truck ID: 1029 --- Brand: Actros --- Status: Free, Capacity: 26000 Range: 13000 =====================================================

Truck ID: 1030 --- Brand: Actros --- Status: Free, Capacity: 26000 Range: 13000 =====================================================

Truck ID: 1031 --- Brand: Actros --- Status: Free, Capacity: 26000 Range: 13000 =====================================================

Truck ID: 1032 --- Brand: Actros --- Status: Free, Capacity: 26000 Range: 13000 =====================================================

Truck ID: 1033 --- Brand: Actros --- Status: Free, Capacity: 26000 Range: 13000 =====================================================

Truck ID: 1034 --- Brand: Actros --- Status: Free, Capacity: 26000 Range: 13000 =====================================================

Truck ID: 1035 --- Brand: Actros --- Status: Free, Capacity: 26000 Range: 13000 =====================================================

Truck ID: 1036 --- Brand: Actros --- Status: Free, Capacity: 26000 Range: 13000 =====================================================

Truck ID: 1037 --- Brand: Actros --- Status: Free, Capacity: 26000 Range: 13000 =====================================================

Truck ID: 1038 --- Brand: Actros --- Status: Free, Capacity: 26000 Range: 13000 =====================================================

Truck ID: 1039 --- Brand: Actros --- Status: Free, Capacity: 26000 Range: 13000 =====================================================

Truck ID: 1040 --- Brand: Actros --- Status: Free, Capacity: 26000 Range: 13000 ===================================================== Available trucks: Truck ID: 1001 --- Brand: Scania --- Status: Free, Capacity: 42000 Range: 8000 =====================================================

Truck ID: 1002 --- Brand: Scania --- Status: Free, Capacity: 42000 Range: 8000 =====================================================

Truck ID: 1003 --- Brand: Scania --- Status: Free, Capacity: 42000 Range: 8000 =====================================================

Truck ID: 1004 --- Brand: Scania --- Status: Free, Capacity: 42000 Range: 8000 =====================================================

Truck ID: 1005 --- Brand: Scania --- Status: Free, Capacity: 42000 Range: 8000 =====================================================

Truck ID: 1006 --- Brand: Scania --- Status: Free, Capacity: 42000 Range: 8000 =====================================================

Truck ID: 1007 --- Brand: Scania --- Status: Free, Capacity: 42000 Range: 8000 =====================================================

Truck ID: 1008 --- Brand: Scania --- Status: Free, Capacity: 42000 Range: 8000 =====================================================

Truck ID: 1009 --- Brand: Scania --- Status: Free, Capacity: 42000 Range: 8000 =====================================================

Truck ID: 1010 --- Brand: Scania --- Status: Free, Capacity: 42000 Range: 8000 =====================================================

Truck ID: 1011 --- Brand: Man --- Status: Free, Capacity: 37000 Range: 10000 =====================================================

Truck ID: 1012 --- Brand: Man --- Status: Free, Capacity: 37000 Range: 10000 =====================================================

Truck ID: 1013 --- Brand: Man --- Status: Free, Capacity: 37000 Range: 10000 =====================================================

Truck ID: 1014 --- Brand: Man --- Status: Free, Capacity: 37000 Range: 10000 =====================================================

Truck ID: 1015 --- Brand: Man --- Status: Free, Capacity: 37000 Range: 10000 =====================================================

Truck ID: 1016 --- Brand: Man --- Status: Free, Capacity: 37000 Range: 10000 =====================================================

Truck ID: 1017 --- Brand: Man --- Status: Free, Capacity: 37000 Range: 10000 =====================================================

Truck ID: 1018 --- Brand: Man --- Status: Free, Capacity: 37000 Range: 10000 =====================================================

Truck ID: 1019 --- Brand: Man --- Status: Free, Capacity: 37000 Range: 10000 =====================================================

Truck ID: 1020 --- Brand: Man --- Status: Free, Capacity: 37000 Range: 10000 =====================================================

Truck ID: 1021 --- Brand: Man --- Status: Free, Capacity: 37000 Range: 10000 =====================================================

Truck ID: 1022 --- Brand: Man --- Status: Free, Capacity: 37000 Range: 10000 =====================================================

Truck ID: 1023 --- Brand: Man --- Status: Free, Capacity: 37000 Range: 10000 =====================================================

Truck ID: 1024 --- Brand: Man --- Status: Free, Capacity: 37000 Range: 10000 =====================================================

Truck ID: 1025 --- Brand: Man --- Status: Free, Capacity: 37000 Range: 10000 =====================================================

Truck ID: 1026 --- Brand: Actros --- Status: Free, Capacity: 26000 Range: 13000 =====================================================

Truck ID: 1027 --- Brand: Actros --- Status: Free, Capacity: 26000 Range: 13000 =====================================================

Truck ID: 1028 --- Brand: Actros --- Status: Free, Capacity: 26000 Range: 13000 =====================================================

Truck ID: 1029 --- Brand: Actros --- Status: Free, Capacity: 26000 Range: 13000 =====================================================

Truck ID: 1030 --- Brand: Actros --- Status: Free, Capacity: 26000 Range: 13000 =====================================================

Truck ID: 1031 --- Brand: Actros --- Status: Free, Capacity: 26000 Range: 13000 =====================================================

Truck ID: 1032 --- Brand: Actros --- Status: Free, Capacity: 26000 Range: 13000 =====================================================

Truck ID: 1033 --- Brand: Actros --- Status: Free, Capacity: 26000 Range: 13000 =====================================================

Truck ID: 1034 --- Brand: Actros --- Status: Free, Capacity: 26000 Range: 13000 =====================================================

Truck ID: 1035 --- Brand: Actros --- Status: Free, Capacity: 26000 Range: 13000 =====================================================

Truck ID: 1036 --- Brand: Actros --- Status: Free, Capacity: 26000 Range: 13000 =====================================================

Truck ID: 1037 --- Brand: Actros --- Status: Free, Capacity: 26000 Range: 13000 =====================================================

Truck ID: 1038 --- Brand: Actros --- Status: Free, Capacity: 26000 Range: 13000 =====================================================

Truck ID: 1039 --- Brand: Actros --- Status: Free, Capacity: 26000 Range: 13000 =====================================================

Truck ID: 1040 --- Brand: Actros --- Status: Free, Capacity: 26000 Range: 13000 =====================================================

Information for Truck 1001:

Status: Free | Capacity: 42000 | Range: 8000

Truck 1001 updated to busy.

Information for Truck 1001:

Status: Busy | Capacity: 42000 | Range: 8000

Truck 1001 updated to free.

Information for Truck 1001:

Status: Free | Capacity: 42000 | Range: 8000

**Vladi commands - Input/Output:**

**Input:**

registercustomer Ricky Gervais rgervais ricky@gmail.com

createpackage AliceSprings Sydney 85 rgervais

createpackage Brisbane Sydney 85 rgervais

createpackage Darwin Sydney 85 rgervais

createpackage Melbourne Sydney 85 rgervais

registercustomer Steve Jobs apple mac@apple.com

createpackage Perth Sydney 12 sjobs

registercustomer Ricky Gervais rgervais ricky@gmail.com

createpackage Melbourne Sydney 85 rgervais

createpackage Perth Sydney 85 sjobs

createpackage Perth Sydney 13 sjobs

updatepackage 7 19/02 Monday @ 11:15 19/02 Monday @ 14:00

infopackage 7

viewpackage Unassigned

viewpackage Delivered   
   
 

**Output:**   
   
User Ricky Gervais registered successfully.

Package 1 from AliceSprings to Sydney of the rgervais, 85 kg accepted in AliceSprings Hub.

Package 2 from Brisbane to Sydney of the rgervais, 85 kg accepted in Brisbane Hub.

Package 3 from Darwin to Sydney of the rgervais, 85 kg accepted in Darwin Hub.

Package 4 from Melbourne to Sydney of the rgervais, 85 kg accepted in Melbourne Hub.

User Steve Jobs registered successfully.

Package 5 from Perth to Sydney of the sjobs, 12 kg accepted in Perth Hub.

User rgervais already registered!

Package 6 from Melbourne to Sydney of the rgervais, 85 kg accepted in Melbourne Hub.

Package 7 from Perth to Sydney of the sjobs, 85 kg accepted in Perth Hub.

createpackage Perth Sydney 13 sjobs

Package 8 from Perth to Sydney of the sjobs, 13 kg accepted in Perth Hub.

Package with ID:7 is on status: Delivered! ETA: 19/02 Monday @ 14:00

PackageID: 7

Package weight: 85 kg

Package start location: Perth

Package end location: Sydney

Package entry date: 19/02 Monday @ 21:35

Package final ETA:

Package status: Delivered

Package 1: from AliceSprings to Sydney, 85 kg. Owner:rgervais

Package 2: from Brisbane to Sydney, 85 kg. Owner:rgervais

Package 3: from Darwin to Sydney, 85 kg. Owner:rgervais

Package 4: from Melbourne to Sydney, 85 kg. Owner:rgervais

Package 5: from Perth to Sydney, 12 kg. Owner:sjobs

Package 6: from Melbourne to Sydney, 85 kg. Owner:rgervais

Package 8: from Perth to Sydney, 13 kg. Owner:sjobs

viewpackage Delivered

Package 7: from Perth to Sydney, 85 kg. Owner:sjobs