|  |  |  |
| --- | --- | --- |
| (("apn1"),("fly-airplane",  ("apn1"),("apt2"),("apt1")),1).  (("apn1"),("fly- airplane", ("apn1"),("apt1"),("apt2")),2).  (("apn1"),("fly-airplane", ("apn1"),("apt2"),("apt1")),3).  (("apn1"),("fly-airplane", ("apn1"),("apt1"),("apt2")),4).  (("apn1"),("load-airplane", ("obj23"),("apn1"),("apt2")),5).  (("apn1"),("load-airplane", ("obj21"),("apn1"),("apt2")),6).  (("apn1"),("fly-airplane", ("apn1"),("apt2"),("apt1")),7).  (("apn1"),("unload-airplane", ("obj21"),("apn1"),("apt1")),8).  (("apn1"),("unload-airplane", ("obj23"),("apn1"),("apt1")),9).  (("apn1"),("load-airplane", ("obj13"),("apn1"),("apt1")),10).  (("apn1"),("unload-airplane", ("obj13"),("apn1"),("apt1")),11).  (("apn1"),("load-airplane", ("obj11"),("apn1"),("apt1")),12).  (("apn1"),("unload-airplane", ("obj11"),("apn1"),("apt1")),13).  (("apn1"),("fly-airplane", ("apn1"),("apt1"),("apt2")),14). | (("tru1"),("load-truck", ("obj13"),("tru1"),("pos1")),1).  (("tru1"),("load-truck", ("obj11"),("tru1"),("pos1")),2).  (("tru1"),("load-truck", ("obj12"),("tru1"),("pos1")),3).  (("tru1"),("drive-truck", ("tru1"),("pos1"),("apt1"),("cit1")),4).  (("tru1"),("drive-truck", ("tru1"),("apt1"),("pos1"),("cit1")),5).  (("tru1"),("drive-truck", ("tru1"),("pos1"),("apt1"),("cit1")),6).  (("tru1"),("unload-truck", ("obj13"),("tru1"),("apt1")),7).  (("tru1"),("unload-truck", ("obj11"),("tru1"),("apt1")),8).  (("tru1"),("load-truck", ("obj21"),("tru1"),("apt1")),9).  (("tru1"),("load-truck", ("obj23"),("tru1"),("apt1")),10).  (("tru1"),("drive-truck", ("tru1"),("apt1"),("pos1"),("cit1")),11).  (("tru1"),("unload-truck", ("obj23"),("tru1"),("pos1")),12).  (("tru1"),("unload-truck", ("obj21"),("tru1"),("pos1")),13).  (("tru1"),("unload-truck" ,("obj12"),("tru1"),("pos1")),14). | (("tru2"),("load-truck", ("obj21"),("tru2"),("pos2")),1).  (("tru2"),("load-truck", ("obj23"),("tru2"),("pos2")),2).  (("tru2"),("drive-truck", ("tru2"),("pos2"),("apt2"),("cit2")),3).  (("tru2"),("unload-truck", ("obj23"),("tru2"),("apt2")),4).  (("tru2"),("unload-truck", ("obj21"),("tru2"),("apt2")),5).  (("tru2"),("drive-truck", ("tru2"),("apt2"),("pos2"),("cit2")),6).  (("tru2"),("drive-truck", ("tru2"),("pos2"),("apt2"),("cit2")),7).  (("tru2"),("drive-truck", ("tru2"),("apt2"),("pos2"),("cit2")),8).  (("tru2"),("drive-truck", ("tru2"),("pos2"),("apt2"),("cit2")),9).  (("tru2"),("drive-truck", ("tru2"),("apt2"),("pos2"),("cit2")),10).  (("tru2"),("load-truck", ("obj22"),("tru2"),("pos2")),11).  (("tru2"),("drive-truck", ("tru2"),("pos2"),("apt2"),("cit2")),12).  (("tru2"),("drive-truck", ("tru2"),("apt2"),("pos2"),("cit2")),13).  (("tru2"),("unload-truck" ,("obj22"),("tru2"),("pos2")),14). |

goal(variable(("at", constant("obj11"), constant("apt1"))), value(variable(("at", constant("obj11"), constant("apt1"))), true)).

goal(variable(("at", constant("obj23"), constant("pos1"))), value(variable(("at", constant("obj23"), constant("pos1"))), true)).

goal(variable(("at", constant("obj13"), constant("apt1"))), value(variable(("at", constant("obj13"), constant("apt1"))), true)).

goal(variable(("at", constant("obj21"), constant("pos1"))), value(variable(("at", constant("obj21"), constant("pos1"))), true)).

initialState(variable(("at", constant("apn1"), constant("apt2"))), value(variable(("at", constant("apn1"), constant("apt2"))), true)).

initialState(variable(("at", constant("tru1"), constant("pos1"))), value(variable(("at", constant("tru1"), constant("pos1"))), true)).

initialState(variable(("at", constant("obj11"), constant("pos1"))), value(variable(("at", constant("obj11"), constant("pos1"))), true)).

initialState(variable(("at", constant("obj12"), constant("pos1"))), value(variable(("at", constant("obj12"), constant("pos1"))), true)).

initialState(variable(("at", constant("obj13"), constant("pos1"))), value(variable(("at", constant("obj13"), constant("pos1"))), true)).

initialState(variable(("at", constant("tru2"), constant("pos2"))), value(variable(("at", constant("tru2"), constant("pos2"))), true)).

initialState(variable(("at", constant("obj21"), constant("pos2"))), value(variable(("at", constant("obj21"), constant("pos2"))), true)).

initialState(variable(("at", constant("obj22"), constant("pos2"))), value(variable(("at", constant("obj22"), constant("pos2"))), true)).

initialState(variable(("at", constant("obj23"), constant("pos2"))), value(variable(("at", constant("obj23"), constant("pos2"))), true)).

initialState(variable(("in-city", constant("pos1"), constant("cit1"))), value(variable(("in-city", constant("pos1"), constant("cit1"))), true)).

initialState(variable(("in-city", constant("apt1"), constant("cit1"))), value(variable(("in-city", constant("apt1"), constant("cit1"))), true)).

initialState(variable(("in-city", constant("pos2"), constant("cit2"))), value(variable(("in-city", constant("pos2"), constant("cit2"))), true)).

initialState(variable(("in-city", constant("apt2"), constant("cit2"))), value(variable(("in-city", constant("apt2"), constant("cit2"))), true)).

