

# Résultats de ASP et MCTS

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Il faut placer le dossier « mcts » dans les dossier « pddl4j\src\main\java\fr\uga\pddl4j\examples »

## Commandes (sur Windows) pour compiler puis lancer les deux programmes :

Compilation :

```
javac -d classes -cp build\libs\pddl4j-4.0.0.jar;lib\* src\main\java\fr\uga\pddl4j\examples\asp\Node.java src\main\java\fr\uga\pddl4j\examples\asp\ASP.java
```

```
javac -d classes -cp build\libs\pddl4j-4.0.0.jar;lib\* src\main\java\fr\uga\pddl4j\examples\mcts\Node.java src\main\java\fr\uga\pddl4j\examples\mcts\MCTS.java
```

Vérification si cela fonctionne :

```
java -cp classes;build\libs\pddl4j-4.0.0.jar;lib\* fr.uga.pddl4j.examples.asp.ASP --help
```

```
java -cp classes;build\libs\pddl4j-4.0.0.jar;lib\* fr.uga.pddl4j.examples.mcts.MCTS -help
```

Exemples de Commandes pour lancer les tests :

```
java -cp classes;build\libs\pddl4j-4.0.0.jar fr.uga.pddl4j.examples.asp.ASP  
src/test/resources/benchmarks/pddl/ipc2000/blocks/strips-typed/domain.pddl  
src/test/resources/benchmarks/pddl/ipc2000/blocks/strips-typed/p001.pddl
```

```
java -cp classes;build\libs\pddl4j-4.0.0.jar fr.uga.pddl4j.examples.mcts.MCTS  
src/test/resources/benchmarks/pddl/ipc2000/blocks/strips-typed/domain.pddl  
src/test/resources/benchmarks/pddl/ipc2000/blocks/strips-typed/p001.pddl
```

## Résultats :

PXXX	ASP	MCTS
ipc2000/blocks/strips-typed		
p001	0: (pick-up b) [0] 1: (stack b a) [0] 2: (pick-up c) [0] 3: (stack c b) [0] 4: (pick-up d) [0] 5: (stack d c) [0]  time spent: 0,07 seconds parsing 0,17 seconds encoding 0,02 seconds searching 0,26 seconds total time  memory used: 0,19 MBytes for problem representation 0,00 MBytes for searching 0,19 MBytes total	00: ( pick-up d) [0] 01: ( stack d c) [0] 02: (unstack d c) [0] 03: ( put-down d) [0] 04: ( pick-up b) [0] 05: ( stack b a) [0] 06: (unstack b a) [0] 07: ( stack b a) [0] 08: ( pick-up c) [0] 09: ( stack c d) [0] 10: (unstack b a) [0] 11: ( stack b a) [0] 12: (unstack c d) [0] 13: ( stack c b) [0] 14: (unstack c b) [0] 15: ( stack c b) [0] 16: ( pick-up d) [0] 17: ( put-down d) [0] 18: ( pick-up d) [0] 19: ( stack d c) [0]  time spent: 0,08 seconds parsing 0,18 seconds encoding 0,15 seconds searching 0,40 seconds total time  memory used: 0,19 MBytes for problem representation 0,00 MBytes for searching



		0,37 seconds total time memory used: 0,26 MBytes for problem representation 0,00 MBytes for searching 0,26 MBytes total
p005	00: (unstack b a) [0] 01: ( stack b c) [0] 02: (unstack a d) [0] 03: ( stack a e) [0] 04: (unstack b c) [0] 05: ( stack b a) [0] 06: ( pick-up c) [0] 07: ( stack c b) [0] 08: ( pick-up d) [0] 09: ( stack d c) [0]  time spent: 0,08 seconds parsing 0,16 seconds encoding 0,07 seconds searching 0,31 seconds total time  memory used: 0,26 MBytes for problem representation 0,01 MBytes for searching 0,27 MBytes total	0: (unstack c d) [0] 1: ( stack c d) [0] 2: (unstack c d) [0] 3: ( stack c b) [0] 4: ( pick-up d) [0] 5: ( stack d c) [0]  time spent: 0,07 seconds parsing 0,16 seconds encoding 0,10 seconds searching 0,33 seconds total time  memory used: 0,26 MBytes for problem representation 0,00 MBytes for searching 0,26 MBytes total
p006	00: (unstack d e) [0] 01: ( put-down d) [0] 02: (unstack e c) [0] 03: ( put-down e) [0] 04: (unstack c a) [0] 05: ( stack c d) [0] 06: (unstack a b) [0] 07: ( put-down a) [0] 08: ( pick-up e) [0] 09: ( stack e a) [0] 10: ( pick-up b) [0] 11: ( stack b e) [0] 12: (unstack c d) [0] 13: ( stack c b) [0] 14: ( pick-up d) [0] 15: ( stack d c) [0]  time spent: 0,06 seconds parsing 0,15 seconds encoding 0,08 seconds searching 0,30 seconds total time  memory used: 0,26 MBytes for problem representation 0,02 MBytes for searching 0,28 MBytes total	00: (unstack c b) [0] 01: ( put-down c) [0] 02: (unstack b d) [0] 03: ( stack b e) [0] 04: ( pick-up d) [0] 05: ( put-down d) [0] 06: ( pick-up c) [0] 07: ( stack c d) [0] 08: (unstack c d) [0] 09: ( stack c b) [0] 10: ( pick-up d) [0] 11: ( stack d c) [0]  time spent: 0,07 seconds parsing 0,15 seconds encoding 0,15 seconds searching 0,38 seconds total time  memory used: 0,26 MBytes for problem representation 0,00 MBytes for searching 0,26 MBytes total
p007	00: (unstack d a) [0] 01: ( put-down d) [0] 02: (unstack f e) [0] 03: ( stack f d) [0] 04: (unstack e b) [0] 05: ( stack e f) [0] 06: (unstack a c) [0] 07: ( stack a e) [0] 08: ( pick-up b) [0] 09: ( stack b a) [0] 10: ( pick-up c) [0] 11: ( stack c b) [0]  time spent: 0,07 seconds parsing 0,20 seconds encoding 0,04 seconds searching 0,31 seconds total time  memory used: 0,35 MBytes for problem representation 0,01 MBytes for searching 0,35 MBytes total	00: (unstack b e) [0] 01: ( put-down b) [0] 02: (unstack a c) [0] 03: ( stack a e) [0] 04: (unstack a e) [0] 05: ( stack a e) [0] 06: ( pick-up b) [0] 07: ( stack b a) [0] 08: ( pick-up c) [0] 09: ( put-down c) [0] 10: ( pick-up c) [0] 11: ( put-down c) [0] 12: (unstack b a) [0] 13: ( stack b a) [0] 14: ( pick-up c) [0] 15: ( stack c b) [0]  time spent: 0,08 seconds parsing 0,24 seconds encoding 0,24 seconds searching 0,55 seconds total time  memory used: 0,35 MBytes for problem representation 0,00 MBytes for searching

		0,35 MBytes total
p008	00: (unstack a f) [0] 01: ( stack a d) [0] 02: ( pick-up b) [0] 03: ( stack b a) [0] 04: ( pick-up c) [0] 05: ( stack c b) [0] 06: ( pick-up f) [0] 07: ( stack f c) [0] 08: ( pick-up e) [0] 09: ( stack e f) [0]  time spent:    0,08 seconds parsing 0,20 seconds encoding 0,07 seconds searching 0,35 seconds total time  memory used:    0,35 MBytes for problem representation 0,01 MBytes for searching 0,36 MBytes total	00: ( pick-up f) [0] 01: ( stack f e) [0] 02: (unstack f e) [0] 03: ( put-down f) [0] 04: (unstack e c) [0] 05: ( put-down e) [0] 06: ( pick-up f) [0] 07: ( stack f c) [0] 08: ( pick-up e) [0] 09: ( stack e f) [0]  time spent:    0,07 seconds parsing 0,17 seconds encoding 0,30 seconds searching 0,54 seconds total time  memory used:    0,35 MBytes for problem representation 0,00 MBytes for searching 0,35 MBytes total
p009	00: (unstack a d) [0] 01: ( put-down a) [0] 02: (unstack d b) [0] 03: ( put-down d) [0] 04: (unstack b f) [0] 05: ( stack b a) [0] 06: (unstack f e) [0] 07: ( put-down f) [0] 08: (unstack e c) [0] 09: ( put-down e) [0] 10: ( pick-up c) [0] 11: ( stack c d) [0] 12: (unstack b a) [0] 13: ( stack b c) [0] 14: ( pick-up a) [0] 15: ( stack a b) [0] 16: ( pick-up f) [0] 17: ( stack f a) [0] 18: ( pick-up e) [0] 19: ( stack e f) [0]  time spent:    0,06 seconds parsing 0,17 seconds encoding 0,23 seconds searching 0,46 seconds total time  memory used:    0,35 MBytes for problem representation 0,25 MBytes for searching 0,60 MBytes total	00: (unstack f a) [0] 01: ( stack f a) [0] 02: (unstack f a) [0] 03: ( stack f b) [0] 04: (unstack f b) [0] 05: ( stack f e) [0] 06: ( pick-up a) [0] 07: ( stack a f) [0] 08: (unstack a f) [0] 09: ( stack a b) [0] 10: (unstack f e) [0] 11: ( put-down f) [0] 12: ( pick-up e) [0] 13: ( put-down e) [0] 14: ( pick-up f) [0] 15: ( stack f a) [0] 16: ( pick-up e) [0] 17: ( stack e f) [0]  time spent:    0,06 seconds parsing 0,18 seconds encoding 3,86 seconds searching 4,10 seconds total time  memory used:    0,35 MBytes for problem representation 0,00 MBytes for searching 0,35 MBytes total
p010	00: (unstack e g) [0] 01: ( put-down e) [0] 02: (unstack g b) [0] 03: ( put-down g) [0] 04: (unstack b a) [0] 05: ( stack b g) [0] 06: (unstack a f) [0] 07: ( put-down a) [0] 08: (unstack f c) [0] 09: ( stack f e) [0] 10: (unstack c d) [0] 11: ( stack c f) [0] 12: (unstack b g) [0] 13: ( stack b c) [0] 14: ( pick-up d) [0] 15: ( stack d b) [0] 16: ( pick-up g) [0] 17: ( stack g d) [0] 18: ( pick-up a) [0] 19: ( stack a g) [0]  time spent:    0,07 seconds parsing 0,20 seconds encoding 0,36 seconds searching 0,63 seconds total time	00: (unstack g d) [0] 01: ( stack g a) [0] 02: (unstack d b) [0] 03: ( put-down d) [0] 04: (unstack g a) [0] 05: ( stack g a) [0] 06: ( pick-up d) [0] 07: ( stack d b) [0] 08: (unstack g a) [0] 09: ( stack g a) [0] 10: (unstack d b) [0] 11: ( stack d b) [0] 12: (unstack g a) [0] 13: ( stack g d) [0] 14: ( pick-up a) [0] 15: ( put-down a) [0] 16: (unstack g d) [0] 17: ( stack g d) [0] 18: ( pick-up a) [0] 19: ( stack a g) [0]  time spent:    0,07 seconds parsing 0,22 seconds encoding 0,47 seconds searching 0,76 seconds total time

	memory used: 0,45 MBytes for problem representation 0,19 MBytes for searching 0,64 MBytes total	memory used: 0,45 MBytes for problem representation 0,00 MBytes for searching 0,45 MBytes total
<b>ipc1998/gripper/strips</b>		
p01	0: ( move rooma roomb) [0] 1: (pick ball1 rooma right) [0] 2: (drop ball1 roomb right) [0] 3: ( pick ball4 rooma left) [0] 4: ( drop ball4 roomb left) [0] 5: ( pick ball3 rooma left) [0] 6: ( drop ball3 roomb left) [0] 7: ( pick ball2 rooma left) [0] 8: ( drop ball2 roomb left) [0]  time spent: 0,06 seconds parsing 0,14 seconds encoding 0,22 seconds searching 0,42 seconds total time  memory used: 0,11 MBytes for problem representation 0,21 MBytes for searching 0,33 MBytes total	00: ( pick ball1 rooma left) [0] 01: ( move rooma roomb) [0] 02: ( pick ball3 rooma left) [0] 03: ( pick ball1 rooma left) [0] 04: ( drop ball3 roomb left) [0] 05: ( pick ball2 rooma left) [0] 06: ( pick ball1 rooma left) [0] 07: (pick ball3 roomb right) [0] 08: ( pick ball1 rooma left) [0] 09: ( drop ball1 roomb left) [0] 10: ( move roomb roomb) [0] 11: (pick ball4 rooma right) [0] 12: ( pick ball1 rooma left) [0] 13: (drop ball4 rooma right) [0] 14: (drop ball3 rooma right) [0] 15: (drop ball4 roomb right) [0] 16: ( pick ball2 rooma left) [0] 17: ( pick ball1 rooma left) [0] 18: ( drop ball2 roomb left) [0]  time spent: 0,07 seconds parsing 0,12 seconds encoding 0,11 seconds searching 0,29 seconds total time  memory used: 0,11 MBytes for problem representation 0,00 MBytes for searching 0,11 MBytes total
p02	00: ( move rooma roomb) [0] 01: (pick ball5 rooma right) [0] 02: (drop ball5 roomb right) [0] 03: ( pick ball2 rooma left) [0] 04: ( drop ball2 roomb left) [0] 05: (pick ball6 rooma right) [0] 06: (drop ball6 roomb right) [0] 07: ( pick ball4 rooma left) [0] 08: ( drop ball4 roomb left) [0] 09: (pick ball3 rooma right) [0] 10: (drop ball3 roomb right) [0] 11: ( pick ball1 rooma left) [0] 12: ( drop ball1 roomb left) [0]  time spent: 0,08 seconds parsing 0,14 seconds encoding 1,80 seconds searching 2,02 seconds total time  memory used: 0,15 MBytes for problem representation 7,09 MBytes for searching 7,23 MBytes total	00: (drop ball1 rooma right) [0] 01: ( pick ball6 roomb left) [0] 02: (pick ball5 roomb right) [0] 03: ( pick ball5 roomb left) [0] 04: (pick ball2 rooma right) [0] 05: ( pick ball3 roomb right) [0] 06: ( drop ball6 rooma left) [0] 07: ( drop ball6 rooma left) [0] 08: ( pick ball6 roomb left) [0] 09: (drop ball3 roomb right) [0] 10: (drop ball3 roomb right) [0] 11: (pick ball4 rooma right) [0] 12: ( pick ball5 rooma left) [0] 13: ( drop ball4 roomb left) [0] 14: ( drop ball5 roomb left) [0] 15: (pick ball3 rooma right) [0] 16: ( drop ball5 rooma left) [0] 17: (drop ball2 roomb right) [0]  time spent: 0,06 seconds parsing 0,14 seconds encoding 0,13 seconds searching 0,33 seconds total time  memory used: 0,15 MBytes for problem representation 0,00 MBytes for searching 0,15 MBytes total
p03	00: ( move rooma roomb) [0] 01: (pick ball4 rooma right) [0] 02: (drop ball4 roomb right) [0] 03: (pick ball2 rooma right) [0] 04: (drop ball2 roomb right) [0] 05: ( pick ball5 rooma left) [0] 06: ( drop ball5 roomb left) [0] 07: (pick ball6 rooma right) [0] 08: (drop ball6 roomb right) [0] 09: (pick ball8 rooma right) [0] 10: (drop ball8 roomb right) [0] 11: (pick ball3 rooma right) [0]	00: (pick ball3 roomb right) [0] 01: ( drop ball8 roomb left) [0] 02: ( drop ball1 roomb left) [0] 03: (drop ball2 rooma right) [0] 04: ( pick ball3 roomb left) [0] 05: ( pick ball8 roomb left) [0] 06: (pick ball2 rooma right) [0] 07: (drop ball3 rooma right) [0] 08: (pick ball3 rooma right) [0] 09: (drop ball8 roomb right) [0] 10: (drop ball3 roomb right) [0] 11: (drop ball6 roomb right) [0]

	12: (drop ball3 roomb right) [0] 13: (pick ball7 rooma right) [0] 14: (drop ball7 roomb right) [0] 15: (pick ball1 rooma right) [0] 16: (drop ball1 roomb right) [0]  time spent: 0,09 seconds parsing 0,18 seconds encoding 50,05 seconds searching 50,31 seconds total time  memory used: 0,18 MBytes for problem representation 291,20 MBytes for searching 291,38 MBytes total	time spent: 0,07 seconds parsing 0,13 seconds encoding 0,21 seconds searching 0,40 seconds total time  memory used: 0,18 MBytes for problem representation 0,00 MBytes for searching 0,18 MBytes total
p04	java.lang.OutOfMemoryError: Java heap space: failed reallocation of scalar replaced objects	0: ( drop ball8 rooma left) [0] 1: (drop ball10 roomb right) [0] 2: ( drop ball2 rooma right) [0] 3: ( pick ball6 roomb left) [0] 4: ( drop ball4 rooma left) [0] 5: ( pick ball8 rooma right) [0] 6: ( drop ball1 roomb right) [0]  time spent: 0,08 seconds parsing 0,15 seconds encoding 0,92 seconds searching 1,15 seconds total time  memory used: 0,21 MBytes for problem representation 0,00 MBytes for searching 0,21 MBytes total
p05	java.lang.OutOfMemoryError: Java heap space	00: (pick ball10 roomb right) [0] 01: (drop ball11 roomb right) [0] 02: ( drop ball8 roomb left) [0] 03: (pick ball12 roomb right) [0] 04: ( drop ball11 rooma left) [0] 05: ( pick ball6 roomb left) [0] 06: ( pick ball7 rooma right) [0] 07: ( drop ball9 roomb right) [0] 08: ( drop ball5 roomb left) [0] 09: ( pick ball11 roomb left) [0] 10: ( pick ball1 rooma right) [0] 11: ( drop ball9 roomb left) [0] 12: ( pick ball11 rooma left) [0] 13: ( pick ball3 roomb right) [0] 14: ( pick ball2 rooma left) [0] 15: ( drop ball2 roomb left) [0]  time spent: 0,10 seconds parsing 0,30 seconds encoding 2,17 seconds searching 2,57 seconds total time  memory used: 0,25 MBytes for problem representation 0,00 MBytes for searching 0,25 MBytes total
p06	java.lang.OutOfMemoryError: Java heap space	00: ( drop ball10 roomb left) [0] 01: (drop ball13 roomb right) [0] 02: ( pick ball3 roomb left) [0] 03: ( pick ball9 rooma right) [0] 04: ( pick ball7 roomb right) [0] 05: ( drop ball2 rooma right) [0] 06: ( pick ball3 roomb left) [0] 07: ( drop ball2 rooma left) [0] 08: (drop ball10 roomb right) [0] 09: ( drop ball4 roomb left) [0] 10: ( pick ball3 roomb left) [0] 11: ( drop ball8 rooma left) [0] 12: ( drop ball7 rooma right) [0] 13: (pick ball12 roomb right) [0] 14: ( drop ball9 roomb right) [0]  time spent: 0,09 seconds parsing 0,22 seconds encoding 2,99 seconds searching

		3,30 seconds total time  memory used: 0,28 MBytes for problem representation 0,00 MBytes for searching 0,28 MBytes total
<b>ipc2002/depots/strips-automatic</b>		
p01	00: ( lift hoist0 crate1 pallet0 depot0) [0] 01: ( lift hoist1 crate0 pallet1 distributor0) [0] 02: ( load hoist0 crate1 truck1 depot0) [0] 03: ( drive truck1 depot0 distributor0) [0] 04: ( load hoist1 crate0 truck1 distributor0) [0] 05: (unload hoist1 crate1 truck1 distributor0) [0] 06: ( drive truck1 distributor0 distributor1) [0] 07: ( drop hoist1 crate1 pallet1 distributor0) [0] 08: (unload hoist2 crate0 truck1 distributor1) [0] 09: ( drop hoist2 crate0 pallet2 distributor1) [0]  time spent: 0,13 seconds parsing 0,23 seconds encoding 0,06 seconds searching 0,41 seconds total time  memory used: 0,41 MBytes for problem representation 0,01 MBytes for searching 0,42 MBytes total	00: ( drive truck0 distributor1 depot0) [0] 01: ( drive truck0 depot0 depot0) [0] 02: ( unload hoist0 crate0 truck0 depot0) [0] 03: ( drive truck0 depot0 distributor0) [0] 04: ( drive truck0 distributor0 distributor1) [0] 05: ( load hoist0 crate0 truck1 depot0) [0] 06: ( drive truck1 depot0 distributor1) [0] 07: ( drive truck0 distributor1 distributor0) [0] 08: ( drive truck0 distributor0 distributor1) [0] 09: (unload hoist2 crate0 truck1 distributor1) [0] 10: ( drive truck1 distributor1 depot0) [0] 11: ( lift hoist1 crate1 pallet1 distributor0) [0] 12: ( drive truck1 depot0 distributor0) [0] 13: ( drop hoist2 crate0 pallet2 distributor1) [0] 14: ( drive truck1 distributor0 distributor0) [0] 15: ( drive truck0 distributor1 distributor1) [0] 16: ( drive truck0 distributor1 depot0) [0] 17: ( drop hoist1 crate1 pallet1 distributor0) [0]  time spent: 0,08 seconds parsing 0,22 seconds encoding 0,38 seconds searching 0,68 seconds total time  memory used: 0,41 MBytes for problem representation 0,00 MBytes for searching 0,41 MBytes total
p02	00: ( lift hoist0 crate0 pallet0 depot0) [0] 01: ( load hoist0 crate0 truck0 depot0) [0] 02: ( lift hoist2 crate2 crate1 distributor1) [0] 03: ( drive truck0 depot0 distributor1) [0] 04: ( load hoist2 crate2 truck0 distributor1) [0] 05: ( lift hoist2 crate1 pallet2 distributor1) [0] 06: ( load hoist2 crate1 truck0 distributor1) [0] 07: (unload hoist2 crate0 truck0 distributor1) [0] 08: ( drive truck0 distributor1 depot0) [0] 09: ( unload hoist0 crate2 truck0 depot0) [0] 10: ( drive truck0 depot0 distributor0) [0] 11: ( drop hoist0 crate2 pallet0 depot0) [0] 12: (unload hoist1 crate1 truck0 distributor0) [0] 13: ( drop hoist1 crate1 crate3 distributor0) [0] 14: ( drop hoist2 crate0 pallet2 distributor1) [0]  time spent: 0,11 seconds parsing 0,40 seconds encoding 0,19 seconds searching 0,69 seconds total time  memory used: 0,90 MBytes for problem representation 0,05 MBytes for searching 0,95 MBytes total	00: ( drive truck1 distributor1 depot0) [0] 01: ( drive truck1 depot0 distributor1) [0] 02: ( drive truck1 distributor1 depot0) [0] 03: ( drop hoist0 crate2 pallet0 depot0) [0] 04: ( lift hoist1 crate3 pallet1 distributor0) [0] 05: ( drive truck1 depot0 distributor0) [0] 06: ( lift hoist0 crate2 pallet0 depot0) [0] 07: ( drop hoist1 crate3 pallet1 distributor0) [0] 08: (unload hoist1 crate1 truck1 distributor0) [0] 09: ( drive truck1 distributor0 depot0) [0] 10: ( drive truck0 depot0 distributor0) [0] 11: ( load hoist0 crate2 truck0 depot0) [0] 12: ( drop hoist1 crate1 crate3 distributor0) [0] 13: ( unload hoist0 crate2 truck0 depot0) [0] 14: ( drop hoist0 crate2 pallet0 depot0) [0] 15: ( drive truck0 depot0 distributor0) [0] 16: ( drive truck1 depot0 distributor1) [0] 17: ( drive truck0 distributor0 depot0) [0] 18: (unload hoist2 crate0 truck1 distributor1) [0] 19: ( drop hoist2 crate0 pallet2 distributor1) [0]  time spent: 0,09 seconds parsing 0,27 seconds encoding 1,30 seconds searching 1,65 seconds total time  memory used: 0,90 MBytes for problem representation 0,00 MBytes for searching 0,90 MBytes total
p03	00: ( lift hoist0 crate1 pallet0 depot0) [0] 01: ( load hoist0 crate1 truck0 depot0) [0] 02: ( lift hoist2 crate5 crate2 distributor1) [0] 03: ( drive truck0 depot0 distributor1) [0] 04: ( load hoist2 crate5 truck0 distributor1) [0] 05: ( lift hoist1 crate4 crate3 distributor0) [0] 06: ( lift hoist2 crate2 pallet2 distributor1) [0] 07: ( load hoist2 crate2 truck0 distributor1) [0] 08: ( load hoist1 crate4 truck1 distributor0) [0] 09: (unload hoist2 crate1 truck0 distributor1) [0]	00: ( drop hoist2 crate0 crate1 distributor1) [0] 01: (unload hoist1 crate4 truck0 distributor0) [0] 02: ( drive truck0 distributor0 distributor1) [0] 03: ( drive truck1 distributor1 distributor0) [0] 04: ( drive truck1 distributor0 distributor0) [0] 05: ( drive truck0 distributor1 distributor1) [0] 06: ( load hoist1 crate4 truck1 distributor0) [0] 07: (unload hoist1 crate4 truck1 distributor0) [0] 08: ( drop hoist0 crate3 crate2 depot0) [0] 09: ( drive truck1 distributor0 distributor1) [0]

	<p>10: ( drop hoist2 crate1 pallet2 distributor1) [0]  11: ( drive truck0 distributor1 distributor0) [0]  12: ( lift hoist1 crate3 crate0 distributor0) [0]  13: ( load hoist1 crate3 truck0 distributor0) [0]  14: ( drive truck0 distributor0 depot0) [0]  15: ( unload hoist0 crate2 truck0 depot0) [0]  16: ( lift hoist1 crate0 pallet1 distributor0) [0]  17: ( load hoist1 crate0 truck1 distributor0) [0]  18: (unload hoist1 crate4 truck1 distributor0) [0]  19: ( drive truck1 distributor0 distributor1) [0]  20: ( drop hoist0 crate2 pallet0 depot0) [0]  21: (unload hoist2 crate0 truck1 distributor1) [0]  22: ( drop hoist1 crate4 pallet1 distributor0) [0]  23: ( drop hoist2 crate0 crate1 distributor1) [0]  24: ( unload hoist0 crate3 truck0 depot0) [0]  25: ( drive truck0 depot0 distributor1) [0]  26: ( drop hoist0 crate3 crate2 depot0) [0]  27: (unload hoist2 crate5 truck0 distributor1) [0]  28: ( drop hoist2 crate5 crate0 distributor1) [0]</p> <p>time spent: 0,08 seconds parsing  0,35 seconds encoding  3,71 seconds searching  4,15 seconds total time</p> <p>memory used: 1,59 MBytes for problem representation  2,98 MBytes for searching  4,57 MBytes total</p>	<p>10: (unload hoist2 crate5 truck1 distributor1) [0]  11: ( drive truck1 distributor1 distributor0) [0]  12: ( drop hoist1 crate4 pallet1 distributor0) [0]  13: ( drop hoist2 crate5 crate0 distributor1) [0]</p> <p>time spent: 0,08 seconds parsing  0,36 seconds encoding  2,87 seconds searching  3,31 seconds total time</p> <p>memory used: 1,59 MBytes for problem representation  0,00 MBytes for searching  1,59 MBytes total</p>
p04	<p>00: ( lift hoist2 crate6 crate5 distributor1) [0]  01: ( load hoist2 crate6 truck1 distributor1) [0]  02: ( drive truck1 distributor1 distributor0) [0]  03: ( lift hoist1 crate2 pallet1 distributor0) [0]  04: ( load hoist1 crate2 truck1 distributor0) [0]  05: (unload hoist1 crate6 truck1 distributor0) [0]  06: ( drop hoist1 crate6 pallet1 distributor0) [0]  07: (unload hoist1 crate2 truck1 distributor0) [0]  08: ( drop hoist1 crate2 crate6 distributor0) [0]  09: ( drive truck1 distributor0 depot0) [0]  10: ( lift hoist0 crate7 crate4 depot0) [0]  11: ( load hoist0 crate7 truck1 depot0) [0]  12: ( lift hoist0 crate4 crate1 depot0) [0]  13: ( load hoist0 crate4 truck1 depot0) [0]  14: ( lift hoist0 crate1 crate0 depot0) [0]  15: ( load hoist0 crate1 truck1 depot0) [0]  16: ( lift hoist0 crate0 pallet0 depot0) [0]  17: ( load hoist0 crate0 truck1 depot0) [0]  18: ( unload hoist0 crate7 truck1 depot0) [0]  19: ( drop hoist0 crate7 pallet0 depot0) [0]  20: ( lift hoist2 crate5 crate3 distributor1) [0]  21: ( load hoist2 crate5 truck0 distributor1) [0]  22: ( lift hoist2 crate3 pallet2 distributor1) [0]  23: ( load hoist2 crate3 truck0 distributor1) [0]  24: ( unload hoist0 crate4 truck1 depot0) [0]  25: ( drop hoist0 crate4 crate7 depot0) [0]  26: ( unload hoist0 crate0 truck1 depot0) [0]  27: ( drop hoist0 crate0 crate4 depot0) [0]  28: (unload hoist2 crate5 truck0 distributor1) [0]  29: ( drop hoist2 crate5 pallet2 distributor1) [0]</p> <p>time spent: 0,09 seconds parsing  0,50 seconds encoding  11,12 seconds searching  11,70 seconds total time</p> <p>memory used: 2,49 MBytes for problem representation  17,72 MBytes for searching  20,21 MBytes total</p>	<p>00: ( drive truck1 depot0 depot0) [0]  01: ( unload hoist0 crate1 truck1 depot0) [0]  02: ( load hoist0 crate1 truck1 depot0) [0]  03: ( lift hoist1 crate2 crate6 distributor0) [0]  04: (unload hoist2 crate3 truck0 distributor1) [0]  05: ( unload hoist0 crate4 truck1 depot0) [0]  06: ( drop hoist1 crate2 crate6 distributor0) [0]  07: ( drive truck0 distributor1 distributor1) [0]  08: ( drop hoist0 crate4 crate7 depot0) [0]  09: ( lift hoist0 crate4 crate7 depot0) [0]  10: ( load hoist2 crate3 truck0 distributor1) [0]  11: ( drop hoist0 crate4 crate7 depot0) [0]  12: ( unload hoist0 crate0 truck1 depot0) [0]  13: ( drop hoist0 crate0 crate4 depot0) [0]</p> <p>time spent: 0,09 seconds parsing  0,45 seconds encoding  9,75 seconds searching  10,29 seconds total time</p> <p>memory used: 2,49 MBytes for problem representation  0,00 MBytes for searching  2,49 MBytes total</p>
p05	<p>00: ( lift hoist0 crate4 crate3 depot0) [0]  01: ( load hoist0 crate4 truck0 depot0) [0]  02: ( lift hoist0 crate3 crate1 depot0) [0]  03: ( load hoist0 crate3 truck0 depot0) [0]  04: ( lift hoist0 crate1 pallet0 depot0) [0]  05: ( load hoist0 crate1 truck0 depot0) [0]  06: ( drive truck0 depot0 distributor0) [0]  07: ( lift hoist1 crate8 crate7 distributor0) [0]</p>	<p>00: ( load hoist2 crate3 truck1 distributor1) [0]  01: ( lift hoist2 crate5 crate2 distributor1) [0]  02: ( drive truck1 distributor1 distributor1) [0]  03: ( drive truck0 distributor1 distributor0) [0]  04: ( lift hoist1 crate7 crate1 distributor0) [0]  05: ( drive truck0 distributor0 distributor0) [0]  06: ( load hoist2 crate5 truck1 distributor1) [0]  07: (unload hoist2 crate3 truck1 distributor1) [0]</p>



	<p>08: ( load hoist1 crate8 truck0 distributor0) [0]  09: ( lift hoist1 crate7 crate6 distributor0) [0]  10: ( load hoist1 crate7 truck0 distributor0) [0]  11: ( lift hoist1 crate6 pallet1 distributor0) [0]  12: ( load hoist1 crate6 truck0 distributor0) [0]  13: (unload hoist1 crate1 truck0 distributor0) [0]  14: ( drop hoist1 crate1 pallet1 distributor0) [0]  15: (unload hoist1 crate7 truck0 distributor0) [0]  16: ( drive truck0 distributor0 distributor1) [0]  17: ( lift hoist2 crate9 crate5 distributor1) [0]  18: ( load hoist2 crate9 truck0 distributor1) [0]  19: ( lift hoist2 crate5 crate2 distributor1) [0]  20: ( load hoist2 crate5 truck0 distributor1) [0]  21: ( lift hoist2 crate2 crate0 distributor1) [0]  22: ( load hoist2 crate2 truck0 distributor1) [0]  23: ( lift hoist2 crate0 pallet2 distributor1) [0]  24: ( load hoist2 crate0 truck0 distributor1) [0]  25: (unload hoist2 crate3 truck0 distributor1) [0]  26: ( drive truck0 distributor1 depot0) [0]  27: ( drop hoist2 crate3 pallet2 distributor1) [0]  28: ( unload hoist0 crate9 truck0 depot0) [0]  29: ( drop hoist0 crate9 pallet0 depot0) [0]  30: ( unload hoist0 crate6 truck0 depot0) [0]  31: ( drop hoist0 crate6 crate9 depot0) [0]  32: ( drop hoist1 crate7 crate1 distributor0) [0]  33: ( unload hoist0 crate4 truck0 depot0) [0]  34: ( drop hoist0 crate4 crate6 depot0) [0]  35: ( unload hoist0 crate5 truck0 depot0) [0]  36: ( drop hoist0 crate5 crate4 depot0) [0]  37: ( unload hoist0 crate0 truck0 depot0) [0]  38: ( drop hoist0 crate0 crate5 depot0) [0]  39: ( unload hoist0 crate2 truck0 depot0) [0]  40: ( drive truck0 depot0 distributor1) [0]  41: ( drop hoist0 crate2 crate0 depot0) [0]  42: (unload hoist2 crate8 truck0 distributor1) [0]  43: ( drop hoist2 crate8 crate3 distributor1) [0]</p> <p>time spent: 0,08 seconds parsing  0,52 seconds encoding  272,73 seconds searching  273,33 seconds total time</p> <p>memory used: 3,61 MBytes for problem representation  293,38 MBytes for searching  296,99 MBytes total</p>	<p>08: ( drop hoist2 crate3 crate2 distributor1) [0]  09: ( drive truck0 distributor0 distributor1) [0]  10: ( lift hoist0 crate4 crate6 depot0) [0]  11: (unload hoist2 crate8 truck0 distributor1) [0]  12: ( drop hoist2 crate8 crate3 distributor1) [0]  13: ( drive truck1 distributor1 distributor1) [0]  14: ( drive truck1 distributor1 depot0) [0]  15: ( drop hoist0 crate4 crate6 depot0) [0]  16: ( drop hoist1 crate7 crate1 distributor0) [0]  17: ( drive truck1 depot0 distributor1) [0]  18: ( drive truck1 distributor1 distributor0) [0]  19: ( drive truck1 distributor0 distributor1) [0]</p> <p>time spent: 0,09 seconds parsing  0,60 seconds encoding  600,46 seconds searching  601,15 seconds total time</p> <p>memory used: 3,61 MBytes for problem representation  0,00 MBytes for searching  3,61 MBytes total</p>
p06	<p>no plan found</p> <p>time spent: 0,10 seconds parsing  0,86 seconds encoding  0,00 seconds searching  0,96 seconds total time</p> <p>memory used: 7,33 MBytes for problem representation  0,00 MBytes for searching  7,33 MBytes total</p>	<p>00: ( drive truck0 distributor1 depot0) [0]  01: ( unload hoist0 crate6 truck0 depot0) [0]  02: ( load hoist0 crate6 truck0 depot0) [0]  03: ( drive truck1 distributor0 distributor1) [0]  04: ( drive truck0 depot0 distributor1) [0]  05: ( drop hoist1 crate0 crate11 distributor0) [0]  06: ( load hoist2 crate14 truck1 distributor1) [0]  07: ( drive truck0 distributor1 distributor1) [0]  08: (unload hoist2 crate2 truck1 distributor1) [0]  09: ( load hoist2 crate2 truck0 distributor1) [0]  10: ( drive truck0 distributor1 distributor0) [0]  11: ( drive truck1 distributor1 depot0) [0]  12: ( drive truck0 distributor0 depot0) [0]  13: ( unload hoist0 crate13 truck1 depot0) [0]  14: ( lift hoist1 crate0 crate11 distributor0) [0]  15: ( load hoist0 crate13 truck1 depot0) [0]  16: ( drop hoist1 crate0 crate11 distributor0) [0]  17: ( drive truck1 depot0 distributor1) [0]  18: ( drive truck1 distributor1 distributor0) [0]  19: ( lift hoist1 crate0 crate11 distributor0) [0]</p> <p>time spent: 0,09 seconds parsing  0,87 seconds encoding  600,84 seconds searching  601,80 seconds total time</p> <p>memory used: 7,33 MBytes for problem representation  0,00 MBytes for searching  7,33 MBytes total</p>
p07	00: ( lift hoist2 crate3 crate2 distributor1) [0]	00: ( drive truck1 depot0 distributor0) [0]

	01: ( load hoist2 crate3 truck0 distributor1) [0] 02: ( drive truck0 distributor1 distributor0) [0] 03: ( lift hoist1 crate4 crate0 distributor0) [0] 04: ( load hoist1 crate4 truck0 distributor0) [0] 05: (unload hoist1 crate3 truck0 distributor0) [0] 06: ( drop hoist1 crate3 pallet1 distributor0) [0] 07: ( lift hoist0 crate5 pallet0 depot0) [0] 08: ( load hoist0 crate5 truck1 depot0) [0] 09: ( lift hoist2 crate1 pallet5 distributor1) [0] 10: ( drop hoist2 crate1 crate2 distributor1) [0] 11: ( drive truck0 distributor0 distributor1) [0] 12: ( lift hoist1 crate0 pallet4 distributor0) [0] 13: (unload hoist2 crate4 truck0 distributor1) [0] 14: ( drop hoist2 crate4 pallet5 distributor1) [0] 15: ( lift hoist2 crate1 crate2 distributor1) [0] 16: ( drop hoist2 crate1 crate4 distributor1) [0] 17: ( drive truck1 depot0 distributor1) [0] 18: ( drop hoist1 crate0 pallet3 distributor0) [0] 19: (unload hoist2 crate5 truck1 distributor1) [0] 20: ( drop hoist2 crate5 crate1 distributor1) [0]  time spent: 0,37 seconds parsing 0,78 seconds encoding 1,13 seconds searching 2,28 seconds total time  memory used: 1,91 MBytes for problem representation 0,94 MBytes for searching 2,86 MBytes total	01: ( lift hoist1 crate3 pallet1 distributor0) [0] 02: ( drive truck1 distributor0 distributor1) [0] 03: ( drop hoist1 crate3 pallet1 distributor0) [0] 04: ( drive truck1 distributor1 distributor1) [0] 05: ( drive truck0 distributor1 distributor0) [0] 06: (unload hoist2 crate5 truck1 distributor1) [0] 07: ( drive truck0 distributor0 distributor1) [0] 08: ( drive truck1 distributor1 distributor0) [0] 09: ( drive truck1 distributor0 distributor1) [0] 10: ( drive truck1 distributor1 distributor0) [0] 11: ( drop hoist2 crate5 crate1 distributor1) [0]  time spent: 0,11 seconds parsing 0,45 seconds encoding 2,63 seconds searching 3,18 seconds total time  memory used: 1,91 MBytes for problem representation 0,00 MBytes for searching 1,91 MBytes total
<b>ipc1998/logistics/strips-round1</b>		
p01	java.lang.OutOfMemoryError: Java heap space	00: ( unload-truck package2 truck3 city3-2) [0] 01: ( load-airplane package4 plane1 city5-2) [0] 02: ( unload-airplane package4 plane2 city1-2) [0] 03: ( unload-airplane package4 plane1 city3-2) [0] 04: ( fly-airplane plane1 city3-2 city5-2) [0] 05: (drive-truck truck6 city6-2 city6-2 city6) [0] 06: ( unload-airplane package5 plane1 city6-2) [0] 07: ( fly-airplane plane2 city5-2 city2-2) [0] 08: ( fly-airplane plane1 city2-2 city4-2) [0] 09: ( unload-airplane package2 plane2 city3-2) [0] 10: ( load-airplane package2 plane2 city3-2) [0] 11: ( fly-airplane plane2 city3-2 city3-2) [0] 12: ( fly-airplane plane2 city5-2 city3-2) [0] 13: ( unload-airplane package3 plane2 city6-2) [0] 14: ( load-truck package4 truck5 city5-2) [0] 15: ( load-airplane package2 plane2 city5-2) [0] 16: ( load-airplane package6 plane1 city1-2) [0] 17: ( fly-airplane plane1 city6-2 city1-2) [0] 18: ( unload-truck package3 truck6 city6-1) [0]  time spent: 0,26 seconds parsing 0,36 seconds encoding 16,89 seconds searching 17,50 seconds total time  memory used: 2,26 MBytes for problem representation 0,00 MBytes for searching 2,26 MBytes total
p02	no plan found  time spent: 0,09 seconds parsing 0,74 seconds encoding 0,00 seconds searching 0,83 seconds total time  memory used: 5,75 MBytes for problem	00: ( fly-airplane plane3 city6-2 city6-2) [0] 01: ( fly-airplane plane3 city7-2 city2-2) [0] 02: ( fly-airplane plane4 city10-2 city1-2) [0] 03: ( fly-airplane plane3 city1-2 city9-2) [0] 04: (unload-airplane package1 plane2 city1-2) [0] 05: ( unload-truck package3 truck1 city1-1) [0] 06: ( fly-airplane plane2 city9-2 city9-2) [0] 07: ( load-airplane package5 plane2 city1-2) [0]

	<p>representation</p> <p>0,00 MBytes for searching 5,75 MBytes total</p>	<p>08: ( fly-airplane plane2 city5-2 city10-2) [0] 09: ( fly-airplane plane3 city10-2 city9-2) [0] 10: ( fly-airplane plane2 city7-2 city2-2) [0] 11: ( fly-airplane plane4 city9-2 city10-2) [0] 12: ( fly-airplane plane2 city6-2 city8-2) [0] 13: ( fly-airplane plane3 city6-2 city5-2) [0] 14: (unload-airplane package3 plane1 city4-2) [0] 15: ( fly-airplane plane3 city8-2 city5-2) [0] 16: ( fly-airplane plane2 city4-2 city9-2) [0] 17: ( fly-airplane plane2 city7-2 city1-2) [0] 18: ( fly-airplane plane4 city1-2 city7-2) [0] 19: ( fly-airplane plane1 city4-2 city3-2) [0]</p> <p>time spent: 0,08 seconds parsing 0,79 seconds encoding 608,93 seconds searching 609,80 seconds total time</p> <p>memory used: 5,75 MBytes for problem representation 0,00 MBytes for searching 5,75 MBytes total</p>
p03	<p>no plan found</p> <p>time spent: 0,11 seconds parsing 2,14 seconds encoding 0,00 seconds searching 2,24 seconds total time</p> <p>memory used: 27,05 MBytes for problem representation 0,00 MBytes for searching 27,05 MBytes total</p>	<p>00: (drive-truck truck7 city7-1 city7-1 city7) [0] 01: (drive-truck truck1 city1-1 city1-2 city1) [0] 02: (drive-truck truck6 city6-2 city6-2 city6) [0] 03: (drive-truck truck8 city8-2 city8-1 city8) [0] 04: ( fly-airplane plane2 city11-3 city10-3) [0] 05: (drive-truck truck5 city5-1 city5-2 city5) [0] 06: ( fly-airplane plane2 city11-3 city4-3) [0] 07: ( fly-airplane plane1 city11-3 city11-3) [0] 08: ( fly-airplane plane3 city1-3 city4-3) [0] 09: ( fly-airplane plane2 city4-3 city3-3) [0] 10: ( fly-airplane plane2 city4-3 city7-3) [0] 11: ( fly-airplane plane2 city7-3 city7-3) [0] 12: ( fly-airplane plane2 city10-3 city6-3) [0] 13: (drive-truck truck1 city1-1 city1-3 city1) [0] 14: ( load-truck package7 truck1 city1-2) [0] 15: ( unload-truck package7 truck1 city1-3) [0] 16: ( fly-airplane plane2 city11-3 city1-3) [0] 17: ( fly-airplane plane1 city11-3 city3-3) [0] 18: ( fly-airplane plane2 city3-3 city12-3) [0] 19: ( fly-airplane plane2 city4-3 city12-3) [0]</p> <p>time spent: 0,32 seconds parsing 3,46 seconds encoding 629,14 seconds searching 632,92 seconds total time</p> <p>memory used: 27,05 MBytes for problem representation 0,00 MBytes for searching 27,05 MBytes total</p>
p04	<p>no plan found</p> <p>time spent: 0,12 seconds parsing 3,90 seconds encoding 0,00 seconds searching 4,02 seconds total time</p> <p>memory used: 46,59 MBytes for problem representation 0,00 MBytes for searching 46,59 MBytes total</p>	<p>00: ( fly-airplane plane2 city12-4 city13-4) [0] 01: ( fly-airplane plane1 city3-4 city5-4) [0] 02: ( drive-truck truck3 city7-1 city7-2 city7) [0] 03: ( drive-truck truck7 city9-1 city9-4 city9) [0] 04: ( unload-airplane package7 plane2 city12-4) [0] 05: ( fly-airplane plane1 city3-4 city11-4) [0] 06: ( drive-truck truck18 city8-2 city8-3 city8) [0] 07: ( fly-airplane plane2 city4-4 city5-4) [0] 08: ( fly-airplane plane4 city4-4 city10-4) [0] 09: ( fly-airplane plane2 city12-4 city5-4) [0] 10: ( fly-airplane plane4 city6-4 city5-4) [0] 11: ( fly-airplane plane4 city8-4 city3-4) [0] 12: ( drive-truck truck5 city8-2 city8-2 city8) [0] 13: ( fly-airplane plane3 city6-4 city4-4) [0] 14: ( fly-airplane plane1 city3-4 city7-4) [0]</p>

		15: (drive-truck truck23 city13-2 city13-2 city13) [0] 16: ( drive-truck truck6 city9-2 city9-1 city9) [0] 17: ( fly-airplane plane4 city5-4 city11-4) [0] 18: ( drive-truck truck17 city7-3 city7-4 city7) [0] 19: ( fly-airplane plane1 city2-4 city6-4) [0]  time spent: 0,09 seconds parsing 3,81 seconds encoding 629,00 seconds searching 632,90 seconds total time  memory used: 46,59 MBytes for problem representation 0,00 MBytes for searching 46,59 MBytes total
p05	no plan found  time spent: 0,08 seconds parsing 0,74 seconds encoding 0,00 seconds searching 0,82 seconds total time  memory used: 3,90 MBytes for problem representation 0,00 MBytes for searching 3,90 MBytes total	00: ( load-truck package2 truck2 city8-2) [0] 01: ( fly-airplane plane1 city5-2 city5-2) [0] 02: ( unload-airplane package2 plane1 city2-2) [0] 03: ( fly-airplane plane1 city4-2 city6-2) [0] 04: ( fly-airplane plane1 city1-2 city7-2) [0] 05: (drive-truck truck2 city8-1 city8-1 city8) [0] 06: ( fly-airplane plane1 city1-2 city3-2) [0] 07: ( fly-airplane plane1 city2-2 city3-2) [0] 08: (drive-truck truck1 city3-2 city3-1 city3) [0] 09: ( fly-airplane plane1 city4-2 city9-2) [0] 10: ( fly-airplane plane1 city9-2 city3-2) [0] 11: ( fly-airplane plane1 city9-2 city7-2) [0] 12: ( load-truck package3 truck11 city9-2) [0] 13: ( load-airplane package2 plane1 city3-2) [0] 14: ( load-airplane package4 plane1 city8-2) [0] 15: ( load-airplane package4 plane1 city2-2) [0] 16: ( unload-truck package2 truck1 city3-2) [0] 17: ( fly-airplane plane1 city5-2 city8-2) [0] 18: ( load-airplane package3 plane1 city7-2) [0] 19: ( unload-truck package2 truck1 city3-1) [0]  time spent: 0,07 seconds parsing 0,60 seconds encoding 28,82 seconds searching 29,49 seconds total time  memory used: 3,90 MBytes for problem representation 0,00 MBytes for searching 3,90 MBytes total
p06	no plan found  time spent: 0,12 seconds parsing 9,68 seconds encoding 0,00 seconds searching 9,80 seconds total time  memory used: 160,65 MBytes for problem representation 0,00 MBytes for searching 160,65 MBytes total	java.lang.NullPointerException
p07	no plan found  time spent: 0,18 seconds parsing 1,15 seconds encoding 0,00 seconds searching 1,33 seconds total time  memory used: 13,46 MBytes for problem representation 0,00 MBytes for searching 13,46 MBytes total	00: ( unload-airplane package8 plane2 city8-2) [0] 01: ( load-airplane package6 plane1 city5-2) [0] 02: ( fly-airplane plane3 city4-2 city3-2) [0] 03: ( fly-airplane plane3 city7-2 city8-2) [0] 04: ( fly-airplane plane3 city9-2 city3-2) [0] 05: ( fly-airplane plane2 city3-2 city11-2) [0] 06: ( fly-airplane plane1 city10-2 city9-2) [0] 07: ( fly-airplane plane4 city6-2 city8-2) [0] 08: ( fly-airplane plane1 city8-2 city8-2) [0] 09: (drive-truck truck9 city9-1 city9-1 city9) [0] 10: (drive-truck truck5 city5-1 city5-2 city5) [0] 11: ( fly-airplane plane3 city11-2 city2-2) [0] 12: (unload-airplane package8 plane3 city10-2) [0]

		<p>13: ( fly-airplane plane2 city2-2 city9-2) [0]  14: (drive-truck truck7 city7-2 city7-2 city7) [0]  15: ( load-truck package7 truck5 city5-2) [0]  16: ( unload-airplane package4 plane1 city2-2) [0]  17: ( load-airplane package6 plane2 city10-2) [0]  18: ( fly-airplane plane6 city3-2 city4-2) [0]  19: ( load-airplane package6 plane2 city11-2) [0]</p> <p>time spent: 0,08 seconds parsing  1,02 seconds encoding  609,55 seconds searching  610,65 seconds total time</p> <p>memory used: 13,46 MBytes for problem representation  0,00 MBytes for searching  13,46 MBytes total</p>
p08	<p>no plan found</p> <p>time spent: 0,12 seconds parsing  10,53 seconds encoding  0,00 seconds searching  10,64 seconds total time</p> <p>memory used: 261,30 MBytes for problem representation  0,00 MBytes for searching  261,30 MBytes total</p>	<p>00: ( fly-airplane plane3 city2-3 city5-3) [0]  01: ( fly-airplane plane1 city5-3 city9-3) [0]  02: ( fly-airplane plane3 city5-3 city17-3) [0]  03: ( drive-truck truck5 city5-3 city5-3 city5) [0]  04: (drive-truck truck27 city14-1 city14-3 city14) [0]  05: ( fly-airplane plane1 city5-3 city2-3) [0]  06: ( drive-truck truck8 city10-3 city10-2 city10) [0]  07: ( drive-truck truck22 city9-1 city9-1 city9) [0]  08: (drive-truck truck25 city12-2 city12-1 city12) [0]  09: ( fly-airplane plane3 city5-3 city19-3) [0]  10: ( drive-truck truck18 city5-1 city5-1 city5) [0]  11: ( fly-airplane plane1 city9-3 city20-3) [0]  12: ( drive-truck truck11 city5-3 city5-2 city5) [0]  13: ( fly-airplane plane2 city16-3 city20-3) [0]  14: ( drive-truck truck15 city2-2 city2-2 city2) [0]  15: ( fly-airplane plane1 city9-3 city6-3) [0]  16: ( drive-truck truck4 city17-2 city17-1 city17) [0]  17: ( load-airplane package21 plane1 city20-3) [0]  18: ( unload-airplane package21 plane1 city6-3) [0]  19: ( fly-airplane plane1 city5-3 city12-3) [0]</p> <p>time spent: 0,11 seconds parsing  12,53 seconds encoding  1071,71 seconds searching  1084,36 seconds total time</p> <p>memory used: 261,30 MBytes for problem representation  0,00 MBytes for searching  261,30 MBytes total</p>