* Document tiré du rapport de projet « Organisation de baguages dans un coffre d'auto », réalisé par les étudiants : Alain Graber, Charline Unternährer, Chaymae El Jabri, Ikram Mekkid, Jonas Venzin & Sahar Tahir

Introduction

Ce projet concerne l'organisation de bagages dans un coffre. La fragilité du contenu des bagages est ignorée, par contre la forme et le poids des bagages sont pris en compte.

Le coffre est vide au début du chargement et il est suffisamment grand pour contenir tous les bagages. Sa taille est considérée comme étant de 6x6. Voici une vue du dessus du coffre.



Nous avons exactement trois bagages à placer dans le coffre. Ils sont tous rectangulaires et ont la même hauteur. Par contre, ils peuvent être de catégories et de poids différents.

- Le poids des bagages est représenté sur une échelle allant de 1 à 5.
 - 1 étant le bagage le plus léger possible
 - 5 étant le bagage le plus lourd possible
- Les catégories des bagages sont représentées sur une échelle allant de 1 à 3.
 - 1 = petit de taille 3x3
 - 2 = moyen de taille 6x2
 - 3 = grand de taille 6x3

Voici les différentes catégories possibles des bagages, vue du dessus :



Cas de figure possibles

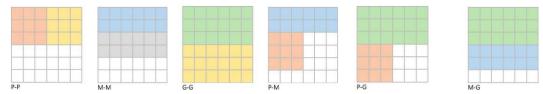
Selon les hypothèses que nous avons posées, nous nous retrouvons avec différents cas de figure possibles.

1- Selon les catégories des bagages, nous pouvons tous les placer côte à côte sur un seul niveau.

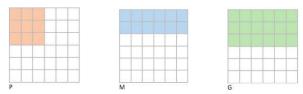


2- Il arrive que nous devions disposer les bagages en deux niveaux. Dans ce cas, le poids des bagages par niveau sera vérifié pour que le niveau supérieur ne soit pas plus lourd que le niveau inférieur.

1er niveau:



2ème niveau:



Représentation des connaissances

Buts et sous-buts

Le but principal du modèle est d'**organiser tous les bagages dans le coffre de manière stable**, sachant que le nombre de bagages ainsi que les dimensions du coffre sont connus.

Nous avons fragmenté ce but en sous-buts afin d'obtenir l'arborescence suivante :

- 1. Vérifier si l'on peut placer les trois bagages sur une seul niveau
 - a. Placer les bagages sur un niveau
- 2. Placer les bagages en deux niveaux
 - a. Vérifier le poids des bagages par niveau
 - b. Interchanger des bagages si besoin

Description des types de chunks

(chunk-type arrange-state c1 c2 c3 p1 p2 p3 first-c second-c result state)

Le chunk-type arrange-state est un chunk pour le goal:

- Les slots c1,c2,c3 représentent les catégories des trois valises en entrée
- Les slots p1,p2,p3 représentent les poids des trois valises en entrée
- First-c et second-c contiendront respectivement l'organisation des valises de la première et deuxième couche
- Result : reçoit 'win' si la somme des poids de la première couche est supérieure à celle de la deuxième couche, et 'lose' sinon
- Le slot state sert à contrôler l'exécution des productions

(chunk-type first1 v1 v2 v3 result-first1) (chunk-type first2 v4 v5 result-first2)

Les chunk-type first1 et first2 sont les chunks utilisés pour les <u>connaissances</u>, ils déterminent les différentes combinaisons en termes de dimensions qu'une couche du coffre peut contenir.

(chunk-type learned-info c1 c2 c3 p1 p2 p3 first-c second-c result)

Le chunk-type learned-info est le chunk qui permet l'apprentissage:

 Ce chunk permettra d'ajouter de nouvelles connaissances dans la mémoire déclarative en sauvegardant les dimensions et les poids des trois valises ainsi que l'organisation obtenue pour la première et la deuxième couche.

Procédures

La production start:

Lance une requête pour chercher dans la mémoire déclarative un chunk avec les slots d'entrées c1, c2, c3, p1, p2, p3.

La productionremember-organization: S'active si la requête a réussi, le modèle a réussis a se rappeler. Par suite elle mets dans les slots *first-c* et *second-c* les organisations retrouvées.

<u>La production</u> <u>doesnt-remember-organization</u>:

Se déclenche, si la requête échoue, ainsi le *state* du goal prend la valeur 'begin-model', ce qui signifie que le modèle n'a pas pu se rappeler d'une situation pareille, et débutera les productions de résolution du problème.

La production begin:

Lance un retrieval afin de voir s'il y a une possibilité de mettre les trois valises à la fois dans la première couche

La production success 3bags:

S'applique si le retrieval réussie, dans ce cas le modèle a trouvé la bonne organisation (les trois valises dans la première couche), il change les valeurs des slots du goal comme suite : Firct-c : l'organisation obtenue, second-c : "vide", state: "final", result: "win"

La production fail-3bag-2:

Se déclenche si la comparaison n'est pas valide, et lance un retrieval pour trouver l'organisation avec les dimensions *c2* et *c3* en première couche

La production car-trunk-2:

Ressemble à la production **car-trunk**, sauf que le code lisp est déclenché en appuyant sur la touche "2", et en cas d'invalidité de comparaison le state prend la valeur "weight-problem-2"

La production fail-3bag-3:

Les valises de dimensions c2 et c3 en première couche ne représente plus la bonne organisation, on lance une requête retrieval avec c1 et c3 en première couche

La production car-trunk-3:

Ressemble à **car-trunk**, sauf que c'est la dernière possibilité restante et que si les deux premières échouent, ça serait nécessairement la bonne on mets le *state* à "final" et *result* à "win".

La production memorize:

Mets l'organisation obtenue dans le buffer imaginal et le *state*du goal à finish

La production show-organization:

Le modèle a trouvé la bonne organisation il appuie sur la touche "0", pour lancer le code lisp qui affiche les résultats dans la console

La production fail-3bags-1:

Si les trois valises ne peuvent pas être dans la première couche, cette production lance un retrieval, pour chercher la combinaison des valises de dimensions c1, c2.

La production car-trunk:

L'organisation des deux valises result-first2 est mise dans le slot first-c du goal, et second-c reçoit la dimension de la troisième valises restante c3. Une action du modèle (appuyer sur la touche "1") lance le code lisp qui comparera la à "win" et le *state* à "final" si poids couche1 > poids couche2 sinon mets *result* à "lose" et le *state*a "weight-problem".

La production clear-new-imaginal-chunk:

Efface le buffer imaginal afin que la nouvelle connaissance s'ajoute à la mémoire déclarative

Scénario

Déroulement

Les trois bagages à placer dans le coffre sont "alignés". Cet alignement permet une notion d'ordre.

- 1. Chercher dans sa mémoire si l'on a déjà rencontré ce même cas
- 2. Vérifier si les trois bagages peuvent être placés au même niveau
- 3. Placer les deux premiers bagages (1er niveau)
- 4. Placer le dernier bagage par-dessus (2ème niveau)
- 5. Vérifier l'organisation, c'est-à-dire :
 - a. Poids des bagages du niveau 1 > Poids du bagage du niveau 2
- 6. Interchanger deux bagages (→ recommencer depuis le point 4)

Le résultat des points 1, 2 et 5.a sont négatifs, c'est pourquoi notre scénario passe au point suivant.

Trace complète

Les commandes pour lancer nb fois le modèle sont :

- (place-valises *nb*) (place-valises *nb*t)

L'option t permet d'afficher le rendu graphique, c'est-à-dire les précisions sur les bagages (poids, catégorie et dans quelle couche il se trouve) ainsi que le visuel des bagages par couche.

La figure suivante montre la trace de l'exécution de notre modèle dont le déroulement détaillé avec le stepper se trouve dans notre présentation.

Pour notre scénario, nous avons lancé la commande : (place-valises 1 t)

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Listener

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	18.000 18.000 18.050 18.150 18.150 18.350 18.350 18.350 18.350 18.350 18.350 18.500 18.500 18.500	MOTOR PROCEDURAL PROCEDURAL PROCEDURAL PROCEDURAL PROCEDURAL PROCEDURAL PROCEDURAL MOTOR PROCEDURAL MOTOR PROCEDURAL MOTOR PROCEDURAL MOTOR PROCEDURAL PROCEDURAL	CONFLICT-RESOLUTION OUTPUT-KEY #(10 2) CONFLICT-RESOLUTION OUTPUT-KEY #(10 2) CONFLICT-RESOLUTION CONFLICT-RESOLUTION PRODUCTION-FIRED SHOW-ORGANIZATION CLEAR-BUFFER MANUAL PRESS-KEY KEY 0 CONFLICT-RESOLUTION OUTPUT-KEY #(18 2)
1	18.000 18.050 18.150 18.150 18.350 18.350 18.350 18.350 18.350 18.350 18.350 18.500	MOTOR PROCEDURAL PROCEDURAL MOTOR PROCEDURAL PROCEDURAL PROCEDURAL PROCEDURAL MOTOR PROCEDURAL MOTOR PROCEDURAL MOTOR PROCEDURAL MOTOR PROCEDURAL	CONFLICT-RESOLUTION OUTPUT-KEY #(10 2) CONFLICT-RESOLUTION OUTPUT-KEY #(10 2) CONFLICT-RESOLUTION CONFLICT-RESOLUTION CONFLICT-RESOLUTION CONFLICT-RESOLUTION CONFLICT-RESOLUTION OUTPUT-KEY #(10 2) CONFLICT-RESOLUTION OUTPUT-KEY #(20 2) CONFLICT-RESOLUTION
33	18.000 18.000 18.050 18.150 18.150 18.350 18.350 18.350 18.350 18.350 18.350 18.500 18.500 18.500	MOTOR PROCEDURAL PROCEDURAL PROCEDURAL PROCEDURAL PROCEDURAL PROCEDURAL PROCEDURAL MOTOR PROCEDURAL MOTOR PROCEDURAL MOTOR PROCEDURAL MOTOR PROCEDURAL PROCEDURAL	CONFLICT-RESOLUTION OUTPUT-KEY #(10 2) CONFLICT-RESOLUTION OUTPUT-KEY #(10 2) CONFLICT-RESOLUTION CONFLICT-RESOLUTION PRODUCTION-FIRED SHOW-ORGANIZATION CLEAR-BUFFER MANUAL PRESS-KEY KEY 0 CONFLICT-RESOLUTION OUTPUT-KEY #(18 2)
1	18.000 18.000 18.050 18.150 18.150 18.350 18.350 18.350 18.350 18.350 18.500 18.500 18.500	MOTOR PROCEDURAL PROCEDURAL PROCEDURAL PROCEDURAL PROCEDURAL PROCEDURAL PROCEDURAL MOTOR PROCEDURAL	CONFLICT-RESOLUTION OUTPUT-KEY #(10 2) CONFLICT-RESOLUTION OUTPUT-KEY #(10 2) CONFLICT-RESOLUTION PRODUCTION-FIRED SHOW-ORGANIZATION CLEAR-BUFFER MANUAL PRESS-KEY KEY 0 CONFLICT-RESOLUTION CONFLICT-RESOLUTION OUTPUT-KEY #(10 2) CONFLICT-RESOLUTION CONFLICT-RESOLUTION CONFLICT-RESOLUTION OUTPUT-KEY #(10 2) CONFLICT-RESOLUTION CONFLICT-RESOLUTION CONFLICT-RESOLUTION CONFLICT-RESOLUTION PRODUCTION-FIRED SHOW-ORGANIZATION
33	18. 600 18. 600 18. 650 18. 150 18. 150 18. 350 18. 350 18. 350 18. 350 18. 350 18. 500 18. 500 18. 650 18. 700	MOTOR PROCEDURAL PROCEDURAL MOTOR PROCEDURAL PROCEDURAL PROCEDURAL PROCEDURAL MOTOR PROCEDURAL MOTOR PROCEDURAL MOTOR PROCEDURAL MOTOR PROCEDURAL MOTOR PROCEDURAL PROCEDURAL PROCEDURAL PROCEDURAL PROCEDURAL PROCEDURAL	CONFLICT-RESOLUTION OUTPUT-KEY #(10 2) CONFLICT-RESOLUTION OUTPUT-KEY #(10 2) CONFLICT-RESOLUTION CONFLICT-RESOLUTION PRODUCTION-FIRED SHOW-ORGANIZATION CLEAR-BUFFER MANUAL PRESS-KEY KEY 0 CONFLICT-RESOLUTION CONFLICT-RESOLUTION OUTPUT-KEY #(10 2) CONFLICT-RESOLUTION CLEAR-BUFFER MANUAL
33	18.000 18.050 18.150 18.150 18.150 18.350 18.350 18.350 18.350 18.350 18.350 18.350 18.360 18.500 18.500 18.700	MOTOR PROCEDURAL	CONFLICT-RESOLUTION OUTPUT-KEY #(10 2) CONFLICT-RESOLUTION OUTPUT-KEY #(10 2) CONFLICT-RESOLUTION CONFLICT-RESOLUTION PRODUCTION-FIRED SHOW-ORGANIZATION CLEAR-BUFFER MANUAL PRESS-KEY KEY 0 CONFLICT-RESOLUTION CONFLICT-RESOLUTION OUTPUT-KEY #(10 2) CONFLICT-RESOLUTION PRODUCTION-FIRED SHOW-ORGANIZATION CLEAR-BUFFER MANUAL PRESS-KEY KEY 0
33	18.000 18.050 18.150 18.150 18.150 18.350 18.350 18.350 18.350 18.400 18.500 18.700	MOTOR PROCEDURAL PROCEDURAL MOTOR PROCEDURAL PROCEDURAL PROCEDURAL PROCEDURAL MOTOR PROCEDURAL	CONFLICT-RESOLUTION CONFLICT-RESOLUTION OUTPUT-KEY #(18 2) CONFLICT-RESOLUTION CHEAR-BUFFER MANUAL PRESS-KEY KEY Ø CONFLICT-RESOLUTION
33	18.000 18.050 18.150 18.150 18.150 18.350 18.350 18.350 18.350 18.350 18.350 18.500 18.500 18.700	MOTOR PROCEDURAL	CONFLICT-RESOLUTION OUTPUT-KEY #(10 2) CONFLICT-RESOLUTION OUTPUT-KEY #(10 2) CONFLICT-RESOLUTION OWNELTON-FIRED SHOW-ORGANIZATION CLEAR-BUFFER MANUAL PRESS-KEY KEY 0 CONFLICT-RESOLUTION OUTPUT-KEY #(10 2) CONFLICT-RESOLUTION OUTPUT-KEY #(10 2) CONFLICT-RESOLUTION CONFLICT-RESOLUTION CONFLICT-RESOLUTION CONFLICT-RESOLUTION CONFLICT-RESOLUTION CONFLICT-RESOLUTION CONFLICT-RESOLUTION CLEAR-BUFFER MANUAL PRESS-KEY KEY 0 CONFLICT-RESOLUTION CONFLICT-RESOLUTION CONFLICT-RESOLUTION CONFLICT-RESOLUTION CONFLICT-RESOLUTION CONFLICT-RESOLUTION CONFLICT-RESOLUTION
33	18.000 18.050 18.150 18.150 18.150 18.350 18.350 18.350 18.350 18.350 18.350 18.500 18.500 18.700	MOTOR PROCEDURAL PROCEDURAL MOTOR PROCEDURAL PROCEDURAL PROCEDURAL PROCEDURAL MOTOR PROCEDURAL	CONFLICT-RESOLUTION OUTPUT-KEY #(10 2) CONFLICT-RESOLUTION OUTPUT-KEY #(10 2) CONFLICT-RESOLUTION CONFLICT-RESOLUTION CONFLICT-RESOLUTION CONFLICT-RESOLUTION CONFLICT-RESOLUTION OUTPUT-KEY #(10 2) CONFLICT-RESOLUTION OUTPUT-KEY #(10 2) CONFLICT-RESOLUTION CONFLICT-R
33	18.000 18.050 18.150 18.150 18.150 18.350 18.350 18.350 18.350 18.350 18.350 18.500 18.500 18.700	MOTOR PROCEDURAL	CONFLICT-RESOLUTION OUTPUT-KEY #(10 2) CONFLICT-RESOLUTION OUTPUT-KEY #(10 2) CONFLICT-RESOLUTION OWNELTON-FIRED SHOW-ORGANIZATION CLEAR-BUFFER MANUAL PRESS-KEY KEY 0 CONFLICT-RESOLUTION OUTPUT-KEY #(10 2) CONFLICT-RESOLUTION OUTPUT-KEY #(10 2) CONFLICT-RESOLUTION CONFLICT-RESOLUTION CONFLICT-RESOLUTION CONFLICT-RESOLUTION CONFLICT-RESOLUTION CONFLICT-RESOLUTION CONFLICT-RESOLUTION CLEAR-BUFFER MANUAL PRESS-KEY KEY 0 CONFLICT-RESOLUTION CONFLICT-RESOLUTION CONFLICT-RESOLUTION CONFLICT-RESOLUTION CONFLICT-RESOLUTION CONFLICT-RESOLUTION CONFLICT-RESOLUTION
33	18.000 18.050 18.150 18.150 18.150 18.350 18.350 18.350 18.350 18.500 18.500 18.700 18.700 18.700 18.780	MOTOR PROCEDURAL PROCEDURAL MOTOR PROCEDURAL PROCEDURAL PROCEDURAL PROCEDURAL PROCEDURAL MOTOR PROCEDURAL MOTOR PROCEDURAL MOTOR PROCEDURAL PROCEDURAL MOTOR PROCEDURAL PROCEDURAL MOTOR PROCEDURAL MOTOR MOTOR	CONFLICT-RESOLUTION OUTPUT-KEY #(10 2) CONFLICT-RESOLUTION OUTPUT-KEY #(10 2) CONFLICT-RESOLUTION CONFLICT-RESOLUTION PRODUCTION-FIRED SHOW-ORGANIZATION CLEAR-BUFFER MANUAL PRESS-KEY KEY 0 CONFLICT-RESOLUTION CONFLICT-RESOLUTION OUTPUT-KEY #(10 2) CONFLICT-RESOLUTION
33	18. 600 18. 600 18. 150 18. 150 18. 150 18. 150 18. 350 18. 350 18. 350 18. 350 18. 400 18. 500 18. 700 18. 700 18. 700 18. 780 18. 780 18. 780 18. 850 19. 850	MOTOR PROCEDURAL PROCEDURAL MOTOR PROCEDURAL PROCEDURAL PROCEDURAL PROCEDURAL PROCEDURAL MOTOR PROCEDURAL PROCEDURAL PROCEDURAL MOTOR PROCEDURAL	CONFLICT-RESOLUTION OUTPUT-KEY #(10 2) CONFLICT-RESOLUTION OUTPUT-KEY #(10 2) CONFLICT-RESOLUTION CONFLICT-RESOLUTION PRODUCTION-FIRED SHOW-ORGANIZATION CLEAR-BUFFER MANUAL PRESS-KEY KEY @ CONFLICT-RESOLUTION CONFLICT-RESOLUTION OUTPUT-KEY #(10 2) CONFLICT-RESOLUTION PRODUCTION-FIRED SHOW-ORGANIZATION CLEAR-BUFFER MANUAL PRESS-KEY KEY @ CONFLICT-RESOLUTION CONFLICT-RESOLUTION CONFLICT-RESOLUTION OUTPUT-KEY #(10 2) CONFLICT-RESOLUTION
331	18.000 18.050 18.150 18.150 18.150 18.350 18.350 18.350 18.350 18.500 18.500 18.700 18.700 18.700 18.780	MOTOR PROCEDURAL PROCEDURAL PROCEDURAL PROCEDURAL PROCEDURAL PROCEDURAL PROCEDURAL MOTOR PROCEDURAL MOTOR PROCEDURAL PROCEDURAL MOTOR PROCEDURAL PROCEDURAL PROCEDURAL PROCEDURAL PROCEDURAL PROCEDURAL MOTOR PROCEDURAL MOTOR PROCEDURAL MOTOR PROCEDURAL MOTOR PROCEDURAL MOTOR PROCEDURAL	CONFLICT-RESOLUTION OUTPUT-KEY #(10 2) CONFLICT-RESOLUTION OUTPUT-KEY #(10 2) CONFLICT-RESOLUTION CONFLICT-RESOLUTION PRODUCTION-FIRED SHOW-ORGANIZATION CLEAR-BUFFER MANUAL PRESS-KEY KEY 0 CONFLICT-RESOLUTION CONFLICT-RESOLUTION OUTPUT-KEY #(10 2) CONFLICT-RESOLUTION
33 1	18. 600 18. 600 18. 150 18. 150 18. 150 18. 150 18. 350 18. 350 18. 350 18. 350 18. 400 18. 500 18. 700 18. 700 18. 700 18. 780 18. 780 18. 780 18. 850 19. 850	MOTOR PROCEDURAL PROCEDURAL MOTOR PROCEDURAL PROCEDURAL PROCEDURAL PROCEDURAL PROCEDURAL MOTOR PROCEDURAL PROCEDURAL PROCEDURAL MOTOR PROCEDURAL	CONFLICT-RESOLUTION OUTPUT-KEY #(10 2) CONFLICT-RESOLUTION OUTPUT-KEY #(10 2) CONFLICT-RESOLUTION CONFLICT-RESOLUTION PRODUCTION-FIRED SHOW-ORGANIZATION CLEAR-BUFFER MANUAL PRESS-KEY KEY @ CONFLICT-RESOLUTION CONFLICT-RESOLUTION OUTPUT-KEY #(10 2) CONFLICT-RESOLUTION PRODUCTION-FIRED SHOW-ORGANIZATION CLEAR-BUFFER MANUAL PRESS-KEY KEY @ CONFLICT-RESOLUTION CONFLICT-RESOLUTION CONFLICT-RESOLUTION OUTPUT-KEY #(10 2) CONFLICT-RESOLUTION
331	18. 600 18. 600 18. 650 18. 150 18. 150 18. 150 18. 350 18. 350 18. 350 18. 500 18. 500 18. 700 18. 700 18. 700 18. 700 18. 700 18. 700 18. 700 18. 700 18. 700 18. 700 18. 700	MOTOR PROCEDURAL PROCEDURAL PROCEDURAL PROCEDURAL PROCEDURAL PROCEDURAL PROCEDURAL PROCEDURAL MOTOR PROCEDURAL MOTOR PROCEDURAL MOTOR PROCEDURAL PROCEDURAL PROCEDURAL PROCEDURAL PROCEDURAL PROCEDURAL MOTOR PROCEDURAL MOTOR PROCEDURAL	CONFLICT-RESOLUTION OUTPUT-KEY #(18 2) CONFLICT-RESOLUTION OUTPUT-KEY #(18 2) CONFLICT-RESOLUTION CONFLICT-RESOLUTION CONFLICT-RESOLUTION CONFLICT-RESOLUTION CONFLICT-RESOLUTION CONFLICT-RESOLUTION OUTPUT-KEY #(18 2) CONFLICT-RESOLUTION CONFLICT-
33 1	18. 000 18. 050 18. 150 18. 150 18. 150 18. 150 18. 150 18. 350 18. 350 18. 350 18. 700 18. 700 18. 700 18. 700 18. 700 18. 700 19. 050	MOTOR PROCEDURAL MOTOR PROCEDURAL PROCEDURAL MOTOR PROCEDURAL	CONFLICT-RESOLUTION OUTPUT-KEY #(10 2) CONFLICT-RESOLUTION OUTPUT-KEY #(10 2) CONFLICT-RESOLUTION CONFLICT-RESOLUTION PRODUCTION-FIRED SHOW-ORGANIZATION CLEAR-BUFFER MANUAL PRESS-KEY KEY 0 CONFLICT-RESOLUTION CONFLICT-RESOLUTION CONFLICT-RESOLUTION CONFLICT-RESOLUTION CONFLICT-RESOLUTION CONFLICT-RESOLUTION CONFLICT-RESOLUTION CONFLICT-RESOLUTION CONFLICT-RESOLUTION CLEAR-BUFFER MANUAL PRESS-KEY KEY 0 CONFLICT-RESOLUTION
33 1	18. 600 18. 600 18. 650 18. 150 18. 150 18. 150 18. 350 18. 350 18. 350 18. 350 18. 500 18. 700 18. 700 18. 700 18. 700 18. 700 19. 650 19. 650	MOTOR PROCEDURAL PROCEDURAL MOTOR PROCEDURAL PROCEDURAL PROCEDURAL PROCEDURAL PROCEDURAL MOTOR PROCEDURAL	CONFLICT-RESOLUTION OUTPUT-KEY #(10 2) CONFLICT-RESOLUTION OUTPUT-KEY #(10 2) CONFLICT-RESOLUTION OUTPUT-KEY #(10 2) CONFLICT-RESOLUTION CONFLICT-RESOLUTION CONFLICT-RESOLUTION OUTPUT-KEY #(10 2) CONFLICT-RESOLUTION OUTPUT-KEY #(10 2) CONFLICT-RESOLUTION CONFLICT-RESOLUTION CONFLICT-RESOLUTION CONFLICT-RESOLUTION CONFLICT-RESOLUTION CONFLICT-RESOLUTION CONFLICT-RESOLUTION CONFLICT-RESOLUTION OUTPUT-KEY #(10 2) CONFLICT-RESOLUTION CONFLICT-RES
33 1	18. 000 18. 050 18. 150 18. 150 18. 150 18. 150 18. 350 18. 350 18. 350 18. 350 18. 700 18. 700 18. 700 18. 700 18. 700 18. 700 19. 050 19. 050	MOTOR PROCEDURAL MOTOR PROCEDURAL PROCEDURAL MOTOR PROCEDURAL PROCEDURAL PROCEDURAL PROCEDURAL PROCEDURAL PROCEDURAL PROCEDURAL PROCEDURAL PROCEDURAL	CONFLICT-RESOLUTION OUTPUT-KEY #(10 2) CONFLICT-RESOLUTION OUTPUT-KEY #(10 2) CONFLICT-RESOLUTION PRODUCTION-FIRED SHOW-ORGANIZATION CLEAR-BUFFER MANUAL PRESS-KEY KEY 0 CONFLICT-RESOLUTION CONFLICT-RESOLUTION OUTPUT-KEY #(10 2) CONFLICT-RESOLUTION PRODUCTION-FIRED SHOW-ORGANIZATION CLEAR-BUFFER MANUAL PRESS-KEY KEY 0 CONFLICT-RESOLUTION OUTPUT-KEY #(10 2) CONFLICT-RESOLUTION
33 1	18. 600 18. 600 18. 150 18. 150 18. 150 18. 150 18. 350 18. 350 18. 350 18. 350 18. 350 18. 350 18. 350 18. 350 18. 350 18. 350 18. 350 18. 350 18. 350 18. 350 18. 350 18. 350 18. 350 18. 350 18. 350 19. 350 19. 350 19. 350 19. 350 19. 350	MOTOR PROCEDURAL PROCEDURAL MOTOR PROCEDURAL PROCEDURAL PROCEDURAL PROCEDURAL PROCEDURAL PROCEDURAL MOTOR PROCEDURAL PROCEDURAL PROCEDURAL PROCEDURAL PROCEDURAL PROCEDURAL PROCEDURAL PROCEDURAL MOTOR PROCEDURAL PROCEDURAL PROCEDURAL PROCEDURAL MOTOR PROCEDURAL MOTOR PROCEDURAL MOTOR PROCEDURAL MOTOR PROCEDURAL	CONFLICT-RESOLUTION OUTPUT-KEY #(10 2) CONFLICT-RESOLUTION OUTPUT-KEY #(10 2) CONFLICT-RESOLUTION OFFICE MANUAL PRESS-KEY KEY 0 CONFLICT-RESOLUTION CONFLICT-RESOLUTION OUTPUT-KEY #(10 2) CONFLICT-RESOLUTION OUTPUT-KEY #(10 2) CONFLICT-RESOLUTION PRODUCTION-FIRED SHOW-ORGANIZATION CLEAR-BUFFER MANUAL PRESS-KEY KEY 0 CONFLICT-RESOLUTION OUTPUT-KEY #(10 2) CONFLICT-RESOLUTION CONFLICT-RESOLUTION CONFLICT-RESOLUTION CONFLICT-RESOLUTION CONFLICT-RESOLUTION CONFLICT-RESOLUTION CONFLICT-RESOLUTION
33 1	18. 000 18. 050 18. 150 18. 150 18. 150 18. 150 18. 350 18. 350 18. 350 18. 350 18. 700 18. 700 18. 700 18. 700 18. 700 18. 700 19. 050 19. 050 19. 050 19. 050 19. 050 19. 050 19. 050 19. 050 19. 050	MOTOR PROCEDURAL MOTOR PROCEDURAL	CONFLICT-RESOLUTION OUTPUT-KEY #(10 2) CONFLICT-RESOLUTION OUTPUT-KEY #(10 2) CONFLICT-RESOLUTION CONFLICT
33 1	18. 600 18. 600 18. 150 18. 150 18. 150 18. 150 18. 350 18. 350 18. 350 18. 350 18. 350 18. 350 18. 350 18. 350 18. 350 18. 350 18. 350 18. 350 18. 350 18. 350 18. 350 18. 350 18. 350 18. 350 18. 350 19. 350 19. 350 19. 350 19. 350 19. 350	MOTOR PROCEDURAL PROCEDURAL MOTOR PROCEDURAL PROCEDURAL PROCEDURAL PROCEDURAL PROCEDURAL PROCEDURAL MOTOR PROCEDURAL PROCEDURAL PROCEDURAL PROCEDURAL PROCEDURAL PROCEDURAL PROCEDURAL PROCEDURAL MOTOR PROCEDURAL PROCEDURAL PROCEDURAL PROCEDURAL MOTOR PROCEDURAL MOTOR PROCEDURAL MOTOR PROCEDURAL MOTOR PROCEDURAL	CONFLICT-RESOLUTION OUTPUT-KEY #(10 2) CONFLICT-RESOLUTION OUTPUT-KEY #(10 2) CONFLICT-RESOLUTION OFFICE MANUAL PRESS-KEY KEY 0 CONFLICT-RESOLUTION CONFLICT-RESOLUTION OUTPUT-KEY #(10 2) CONFLICT-RESOLUTION OUTPUT-KEY #(10 2) CONFLICT-RESOLUTION PRODUCTION-FIRED SHOW-ORGANIZATION CLEAR-BUFFER MANUAL PRESS-KEY KEY 0 CONFLICT-RESOLUTION OUTPUT-KEY #(10 2) CONFLICT-RESOLUTION CONFLICT-RESOLUTION CONFLICT-RESOLUTION CONFLICT-RESOLUTION CONFLICT-RESOLUTION CONFLICT-RESOLUTION CONFLICT-RESOLUTION
33 1	18. 000 18. 050 18. 150 18. 150 18. 150 18. 150 18. 350 18. 350 18. 350 18. 350 18. 350 18. 350 18. 350 18. 350 18. 350 19. 050 19. 050 19. 050 19. 050 19. 050 19. 050 19. 100 19. 200	MOTOR PROCEDURAL MOTOR PROCEDURAL	CONFLICT-RESOLUTION OUTPUT-KEY #(10 2) CONFLICT-RESOLUTION OUTPUT-KEY #(10 2) CONFLICT-RESOLUTION CONFLICT
33 1	18. 600 18. 650 18. 150 18. 150 18. 150 18. 350 18. 350 18. 350 18. 350 18. 350 18. 350 18. 350 18. 350 18. 350 18. 350 18. 350 18. 350 18. 360 18. 700 18. 700 18. 700 18. 700 19. 65	MOTOR PROCEDURAL PROCEDURAL PROCEDURAL PROCEDURAL PROCEDURAL PROCEDURAL PROCEDURAL MOTOR PROCEDURAL MOTOR PROCEDURAL MOTOR PROCEDURAL MOTOR PROCEDURAL PROCEDURAL PROCEDURAL PROCEDURAL PROCEDURAL MOTOR PROCEDURAL MOTOR PROCEDURAL MOTOR PROCEDURAL MOTOR PROCEDURAL MOTOR PROCEDURAL PROCEDURAL MOTOR PROCEDURAL MOTOR PROCEDURAL MOTOR PROCEDURAL PROCEDURAL MOTOR PROCEDURAL PROCEDURAL PROCEDURAL PROCEDURAL	CONFLICT-RESOLUTION OUTPUT-KEY #(18 2) CONFLICT-RESOLUTION OUTPUT-KEY #(18 2) CONFLICT-RESOLUTION OUTPUT-KEY #(18 2) CONFLICT-RESOLUTION CONFLICT-RESOLUTION CONFLICT-RESOLUTION OUTPUT-KEY #(18 2) CONFLICT-RESOLUTION
33 1 33 1	18. 000 18. 050 18. 150 18. 150 18. 150 18. 150 18. 350 18. 350 18. 350 18. 350 18. 350 18. 350 18. 350 18. 350 18. 350 19. 050 19. 050 19. 050 19. 050 19. 050 19. 050 19. 100 19. 200	MOTOR PROCEDURAL MOTOR PROCEDURAL MOTOR PROCEDURAL MOTOR PROCEDURAL MOTOR PROCEDURAL MOTOR PROCEDURAL MOTOR PROCEDURAL PROCEDURAL PROCEDURAL MOTOR PROCEDURAL PROCEDURAL MOTOR PROCEDURAL	CONFLICT-RESOLUTION OUTPUT-KEY #(10 2) CONFLICT-RESOLUTION OUTPUT-KEY #(10 2) CONFLICT-RESOLUTION PRODUCTION-FIRED SHOW-ORGANIZATION CLEAR-BUFFER MANUAL PRESS-KEY KEY @ CONFLICT-RESOLUTION CONFLICT-RESOLUTION OUTPUT-KEY #(10 2) CONFLICT-RESOLUTION
331 331	18. 600 18. 650 18. 150 18. 150 18. 150 18. 350 18. 350 18. 350 18. 350 18. 350 18. 350 18. 350 18. 350 18. 350 18. 350 18. 350 18. 350 18. 360 18. 700 18. 700 18. 700 18. 700 19. 65	MOTOR PROCEDURAL PROCEDURAL PROCEDURAL PROCEDURAL PROCEDURAL PROCEDURAL PROCEDURAL MOTOR PROCEDURAL MOTOR PROCEDURAL MOTOR PROCEDURAL MOTOR PROCEDURAL PROCEDURAL PROCEDURAL PROCEDURAL PROCEDURAL MOTOR PROCEDURAL MOTOR PROCEDURAL MOTOR PROCEDURAL MOTOR PROCEDURAL MOTOR PROCEDURAL PROCEDURAL MOTOR PROCEDURAL MOTOR PROCEDURAL MOTOR PROCEDURAL PROCEDURAL MOTOR PROCEDURAL PROCEDURAL PROCEDURAL PROCEDURAL	CONFLICT-RESOLUTION OUTPUT-KEY #(18 2) CONFLICT-RESOLUTION OUTPUT-KEY #(18 2) CONFLICT-RESOLUTION OUTPUT-KEY #(18 2) CONFLICT-RESOLUTION CONFLICT-RESOLUTION CONFLICT-RESOLUTION OUTPUT-KEY #(18 2) CONFLICT-RESOLUTION
33 1 33 1	18. 000 18. 050 18. 150 18. 150 18. 150 18. 150 18. 350 18. 350 18. 350 18. 350 18. 700 18. 700 18. 700 18. 700 19. 050 19. 050 19. 050 19. 050 19. 050 19. 200 19. 200 19. 200 19. 200 19. 200 19. 200	MOTOR PROCEDURAL MOTOR PROCEDURAL	CONFLICT-RESOLUTION OUTPUT-KEY #(10 2) CONFLICT-RESOLUTION OUTPUT-KEY #(10 2) CONFLICT-RESOLUTION CONFLICT-RESOLUTION PRODUCTION-FIRED SHOW-ORGANIZATION CLEAR-BUFFER MANUAL PRESS-KEY KEY 0 CONFLICT-RESOLUTION CONFLICT-RESOLUTION CONFLICT-RESOLUTION OUTPUT-KEY #(10 2) CONFLICT-RESOLUTION PRODUCTION-FIRED SHOW-ORGANIZATION CLEAR-BUFFER MANUAL PRESS-KEY KEY 0 CONFLICT-RESOLUTION OUTPUT-KEY #(10 2) CONFLICT-RESOLUTION OUTPUT-KEY #(10 2) CONFLICT-RESOLUTION CONFLIC
331 331	18. 000 18. 000 18. 000 18. 150 18. 150 18. 150 18. 350 18. 350 18. 350 18. 350 18. 350 18. 500 18. 700 18. 700 18. 700 19. 000	MOTOR PROCEDURAL PROCEDURAL PROCEDURAL PROCEDURAL PROCEDURAL PROCEDURAL PROCEDURAL PROCEDURAL MOTOR PROCEDURAL MOTOR PROCEDURAL MOTOR PROCEDURAL	CONFLICT-RESOLUTION OUTPUT-KEY #(10 2) CONFLICT-RESOLUTION OUTPUT-KEY #(10 2) CONFLICT-RESOLUTION OUTPUT-KEY #(10 2) CONFLICT-RESOLUTION CONFLICT-RESOLUTION CONFLICT-RESOLUTION OUTPUT-KEY #(10 2) CONFLICT-RESOLUTION OUTPUT-KEY #(10 2) CONFLICT-RESOLUTION CONFLICT-RESOLUTION PRODUCTION-FIRED SHOW-ORGANIZATION CLEAR-BUFFER MANUAL PRESS-KEY KEY 0 CONFLICT-RESOLUTION CONFLICT-RESOLUTION OUTPUT-KEY #(10 2) CONFLICT-RESOLUTION CONFL
331 331	18. 000 18. 050 18. 150 18. 150 18. 150 18. 150 18. 350 19. 350	MOTOR PROCEDURAL MOTOR PROCEDURAL PROCEDURAL PROCEDURAL MOTOR PROCEDURAL PROCEDURAL MOTOR PROCEDURAL	CONFLICT-RESOLUTION OUTPUT-KEY #(10 2) CONFLICT-RESOLUTION OUTPUT-KEY #(10 2) CONFLICT-RESOLUTION CONFLICT-RESOLUTION PRODUCTION-FIRED SHOW-ORGANIZATION CLEAR-BUFFER MANUAL PRESS-KEY KEY 0 CONFLICT-RESOLUTION CONFLICT-RESOLUT
331 331	18. 000 18. 000 18. 000 18. 150 18. 150 18. 150 18. 350 18. 350 18. 350 18. 350 18. 350 18. 350 18. 500 18. 700 18. 700 18. 700 19. 00	MOTOR PROCEDURAL PROCEDURAL PROCEDURAL PROCEDURAL PROCEDURAL PROCEDURAL PROCEDURAL PROCEDURAL MOTOR PROCEDURAL MOTOR PROCEDURAL MOTOR PROCEDURAL PROCEDURAL PROCEDURAL PROCEDURAL PROCEDURAL PROCEDURAL MOTOR PROCEDURAL MOTOR PROCEDURAL PROCEDURAL PROCEDURAL PROCEDURAL PROCEDURAL MOTOR PROCEDURAL PROCEDURAL PROCEDURAL PROCEDURAL PROCEDURAL PROCEDURAL PROCEDURAL	CONFLICT-RESOLUTION OUTPUT-KEY #(10 2) CONFLICT-RESOLUTION OUTPUT-KEY #(10 2) CONFLICT-RESOLUTION OFFICE MANUAL PRESS-KEY KEY 0 CONFLICT-RESOLUTION CONFLICT-RESOLUTION OUTPUT-KEY #(10 2) CONFLICT-RESOLUTION OUTPUT-KEY #(10 2) CONFLICT-RESOLUTION OUTPUT-KEY #(10 2) CONFLICT-RESOLUTION CONFLICT-RESOLUTION CONFLICT-RESOLUTION OUTPUT-KEY #(10 2) CONFLICT-RESOLUTION CONFLICT-RESOLUTION OUTPUT-KEY #(10 2) CONFL
331 331	18. 000 18. 150 19. 15	MOTOR PROCEDURAL MOTOR PROCEDURAL	CONFLICT-RESOLUTION OUTPUT-KEY #(10 2) CONFLICT-RESOLUTION OUTPUT-KEY #(10 2) CONFLICT-RESOLUTION CONFLICT-RESOLUTION PRODUCTION-FIRED SHOW-ORGANIZATION CLEAR-BUFFER MANUAL PRESS-KEY KEY 0 CONFLICT-RESOLUTION CONFLICT-RESOLUTION OUTPUT-KEY #(10 2) CONFLICT-RESOLUTION PRODUCTION-FIRED SHOW-ORGANIZATION CLEAR-BUFFER MANUAL PRESS-KEY KEY 0 CONFLICT-RESOLUTION OUTPUT-KEY #(10 2) CONFLICT-RESOLUTION OUTPUT-KEY #(10 2) CONFLICT-RESOLUTION OUTPUT-KEY #(10 2) CONFLICT-RESOLUTION CONFLICT-RESOLUTION CONFLICT-RESOLUTION CONFLICT-RESOLUTION CONFLICT-RESOLUTION CONFLICT-RESOLUTION CONFLICT-RESOLUTION OUTPUT-KEY #(10 2) CONFLICT-RESOLUTION OUTPUT-KEY #(10 2) CONFLICT-RESOLUTION CONFLICT-RESOLUTION OUTPUT-KEY #(10 2) CONFLICT-RESOLUTION PRODUCTION-FIRED SHOW-ORGANIZATION CLEAR-BUFFER MANUAL PRESS-KEY #(10 2) CONFLICT-RESOLUTION OUTPUT-KEY #(10 2) CONFLICT-RESOLUTION PRODUCTION-FIRED SHOW-ORGANIZATION CLEAR-BUFFER MANUAL PRESS-KEY #(10 2) CONFLICT-RESOLUTION OUTPUT-KEY #(10 2) CONFLICT-RES
331 331	18. 000 18. 000 18. 000 18. 150 18. 150 18. 150 18. 350 18. 350 18. 350 18. 350 18. 350 18. 350 18. 500 18. 700 18. 700 18. 700 19. 00	MOTOR PROCEDURAL MOTOR PROCEDURAL MOTOR PROCEDURAL MOTOR PROCEDURAL MOTOR PROCEDURAL MOTOR PROCEDURAL MOTOR PROCEDURAL	CONFLICT-RESOLUTION OUTPUT-KEY #(10 2) CONFLICT-RESOLUTION OUTPUT-KEY #(10 2) CONFLICT-RESOLUTION OFFICE MANUAL PRESS-KEY KEY 0 CONFLICT-RESOLUTION CONFLICT-RESOLUTION OUTPUT-KEY #(10 2) CONFLICT-RESOLUTION OUTPUT-KEY #(10 2) CONFLICT-RESOLUTION OUTPUT-KEY #(10 2) CONFLICT-RESOLUTION CONFLICT-RESOLUTION CONFLICT-RESOLUTION OUTPUT-KEY #(10 2) CONFLICT-RESOLUTION CONFLICT-RESOLUTION OUTPUT-KEY #(10 2) CONFL
331 331	18. 000 18. 150 19. 15	MOTOR PROCEDURAL MOTOR PROCEDURAL	CONFLICT-RESOLUTION OUTPUT-KEY #(10 2) CONFLICT-RESOLUTION OUTPUT-KEY #(10 2) CONFLICT-RESOLUTION CONFLICT-RESOLUTION PRODUCTION-FIRED SHOW-ORGANIZATION CLEAR-BUFFER MANUAL PRESS-KEY KEY 0 CONFLICT-RESOLUTION CONFLICT-RESOLUTION OUTPUT-KEY #(10 2) CONFLICT-RESOLUTION PRODUCTION-FIRED SHOW-ORGANIZATION CLEAR-BUFFER MANUAL PRESS-KEY KEY 0 CONFLICT-RESOLUTION OUTPUT-KEY #(10 2) CONFLICT-RESOLUTION OUTPUT-KEY #(10 2) CONFLICT-RESOLUTION OUTPUT-KEY #(10 2) CONFLICT-RESOLUTION CONFLICT-RESOLUTION CONFLICT-RESOLUTION CONFLICT-RESOLUTION CONFLICT-RESOLUTION CONFLICT-RESOLUTION CONFLICT-RESOLUTION OUTPUT-KEY #(10 2) CONFLICT-RESOLUTION OUTPUT-KEY #(10 2) CONFLICT-RESOLUTION CONFLICT-RESOLUTION OUTPUT-KEY #(10 2) CONFLICT-RESOLUTION PRODUCTION-FIRED SHOW-ORGANIZATION CLEAR-BUFFER MANUAL PRESS-KEY #(10 2) CONFLICT-RESOLUTION OUTPUT-KEY #(10 2) CONFLICT-RESOLUTION PRODUCTION-FIRED SHOW-ORGANIZATION CLEAR-BUFFER MANUAL PRESS-KEY #(10 2) CONFLICT-RESOLUTION OUTPUT-KEY #(10 2) CONFLICT-RES
331 331	18. 600 18. 600 18. 150 18. 150 18. 150 18. 150 18. 350 18. 350 18. 350 18. 350 18. 350 18. 350 18. 350 18. 350 18. 350 18. 350 18. 360 18. 760 18. 760 18. 760 18. 760 18. 760 18. 760 19. 65	MOTOR PROCEDURAL PROCEDURAL PROCEDURAL PROCEDURAL PROCEDURAL PROCEDURAL PROCEDURAL MOTOR PROCEDURAL MOTOR PROCEDURAL	CONFLICT-RESOLUTION OUTPUT-KEY #(18 2) CONFLICT-RESOLUTION OUTPUT-KEY #(18 2) CONFLICT-RESOLUTION OUTPUT-KEY #(18 2) CONFLICT-RESOLUTION CONFLICT-RESOLUTION CONFLICT-RESOLUTION OUTPUT-KEY #(18 2) CONFLICT-RESOLUTION OUTPUT-KEY #(18 2) CONFLICT-RESOLUTION CONFLICT-RESOLUTION CONFLICT-RESOLUTION CONFLICT-RESOLUTION CONFLICT-RESOLUTION OUTPUT-KEY #(18 2) CONFLICT-RESOLUTION CONFLICT-RESOLUTION OUTPUT-KEY #(18 2) CONFLICT-RESOLUTION
331 331	18. 600 18. 600 18. 600 18. 150 19. 15	MOTOR PROCEDURAL MOTOR PROCEDURAL MOTOR PROCEDURAL MOTOR PROCEDURAL MOTOR PROCEDURAL MOTOR PROCEDURAL MOTOR PROCEDURAL MOTOR PROCEDURAL	CONFLICT-RESOLUTION OUTPUT-KEY #(10 2) CONFLICT-RESOLUTION OUTPUT-KEY #(10 2) CONFLICT-RESOLUTION PRODUCTION-FIRED SHOW-ORGANIZATION CLEAR-BUFFER MANUAL PRESS-KEY KEY 0 CONFLICT-RESOLUTION CONFLICT-RESOLUTION CONFLICT-RESOLUTION OUTPUT-KEY #(10 2) CONFLICT-RESOLUTION CONFLICT-RESOLUTION OUTPUT-KEY #(10 2) CONFLICT-RESOLUTION OUTPUT-KEY #(10 2) CONFLICT-RESOLUTION OUTPUT-KEY #(10 2) CONFLICT-RESOLUTION OUTPUT-KEY #(10 2) CONFLICT-RESOLUTION OUTPUT-KESOLUTION CONFLICT-RESOLUTION CONFLICT-R
31 31 31	18. 600 18. 600 18. 150 18. 150 18. 150 18. 150 18. 350 18. 350 18. 350 18. 350 18. 350 18. 350 18. 350 18. 350 18. 350 18. 350 18. 360 18. 760 18. 760 18. 760 18. 760 18. 760 18. 760 19. 65	MOTOR PROCEDURAL PROCEDURAL PROCEDURAL PROCEDURAL PROCEDURAL PROCEDURAL PROCEDURAL MOTOR PROCEDURAL MOTOR PROCEDURAL	CONFLICT-RESOLUTION OUTPUT-KEY #(18 2) CONFLICT-RESOLUTION OUTPUT-KEY #(18 2) CONFLICT-RESOLUTION OUTPUT-KEY #(18 2) CONFLICT-RESOLUTION CONFLICT-RESOLUTION CONFLICT-RESOLUTION OUTPUT-KEY #(18 2) CONFLICT-RESOLUTION OUTPUT-KEY #(18 2) CONFLICT-RESOLUTION CONFLICT-RESOLUTION CONFLICT-RESOLUTION CONFLICT-RESOLUTION CONFLICT-RESOLUTION OUTPUT-KEY #(18 2) CONFLICT-RESOLUTION CONFLICT-RESOLUTION OUTPUT-KEY #(18 2) CONFLICT-RESOLUTION
331 331	18. 600 18. 600 18. 600 18. 150 19. 15	MOTOR PROCEDURAL MOTOR PROCEDURAL MOTOR PROCEDURAL MOTOR PROCEDURAL MOTOR PROCEDURAL MOTOR PROCEDURAL MOTOR PROCEDURAL MOTOR PROCEDURAL	CONFLICT-RESOLUTION OUTPUT-KEY #(10 2) CONFLICT-RESOLUTION OUTPUT-KEY #(10 2) CONFLICT-RESOLUTION PRODUCTION-FIRED SHOW-ORGANIZATION CLEAR-BUFFER MANUAL PRESS-KEY KEY 0 CONFLICT-RESOLUTION CONFLICT-RESOLUTION CONFLICT-RESOLUTION OUTPUT-KEY #(10 2) CONFLICT-RESOLUTION CONFLICT-RESOLUTION OUTPUT-KEY #(10 2) CONFLICT-RESOLUTION OUTPUT-KEY #(10 2) CONFLICT-RESOLUTION OUTPUT-KEY #(10 2) CONFLICT-RESOLUTION OUTPUT-KEY #(10 2) CONFLICT-RESOLUTION OUTPUT-KESOLUTION CONFLICT-RESOLUTION CONFLICT-R

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19.750 PROCEDURAL

19.750 NOTOR

19.750 PRESS-KEY VEY 0

19.750 PROCEDURAL

CONFLICT-RESOLUTION

19.980 NOTOR

19.980 NOTOR

19.980 PROCEDURAL

CONFLICT-RESOLUTION

19.980 PROCEDURAL

CONFLICT-RESOLUTION

19.980 PROCEDURAL

CONFLICT-RESOLUTION

Stopped because time limit reached

La valise pese: 1, est de categorie 2, mesure 6x3 et est positionnee a la couche 1

La valise pese: 3, est de categorie 3, mesure 6x3 et est positionnee a la couche 2

Niveau 1:

Niveau 2:
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