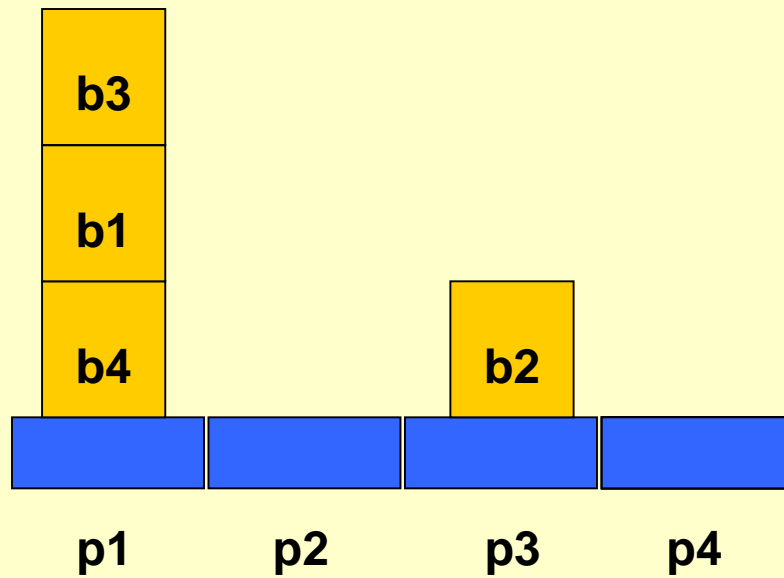


***Przykład wykonania
algorytmu planowania sekwencji akcji
opartego na metodzie „środki-cele”***

***--przebieg omówiony
na zajęciach wprowadzających***

Przebieg wykonania

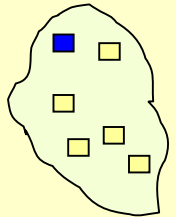
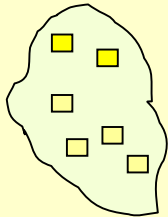
Stan początkowy



Cel:

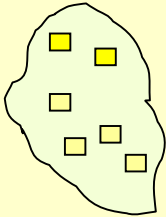
on(b4,b2)

STAN POCZ

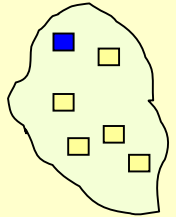


CELE:
on(b4,b2)

STAN POCZ

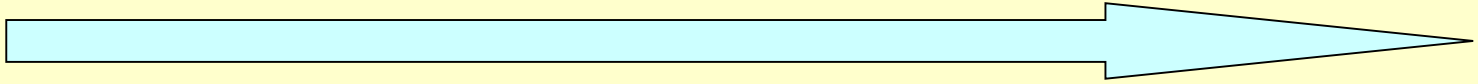


*rozpoczyna się
konstruowanie planu*

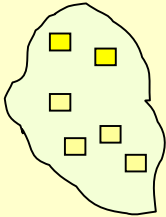


**CELE:
on(b4,b2)**

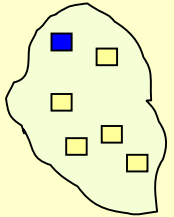
PLAN 1



STAN POCZ

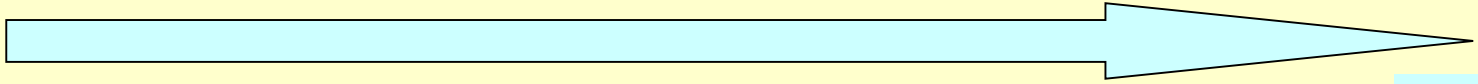


*rozpoczyna się
konstruowanie planu*

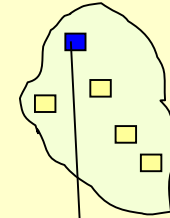
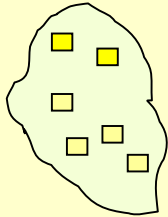


**CELE:
on(b4,b2)**

PLAN 1



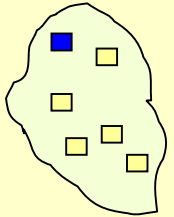
STAN POCZ



on(b4,b2)



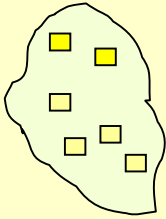
*tu będzie
postplan*



CELE:
on(b4,b2)

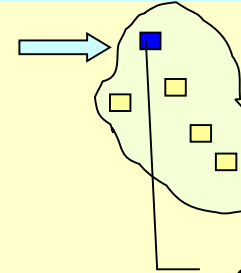
PLAN 1

STAN POCZ



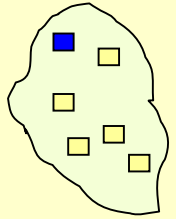
AKCJA

$\text{move}(b4, Y_1 / \text{on}(b4, Y_1), b2)$



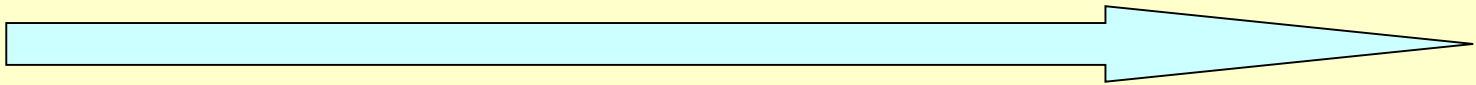
$\text{on}(b4, b2)$

*tu będzie
postplan*

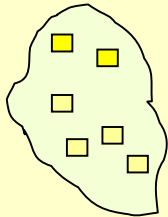


CELE:
 $\text{on}(b4, b2)$

PLAN 1

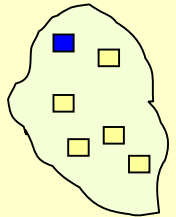
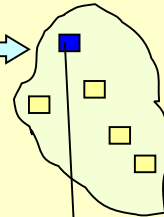
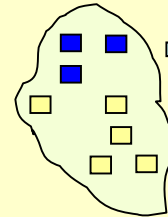


STAN POCZ



AKCJA

move(b4, Y₁/on (b4, Y₁), b2)



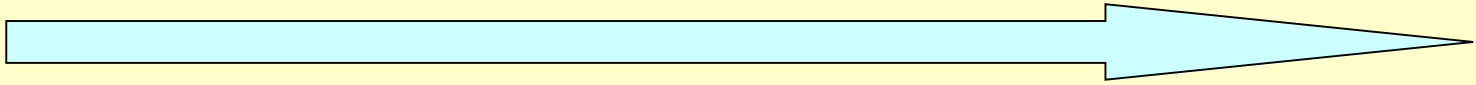
CELE:
clear(b4)
clear(b2)

on(b4,b2)

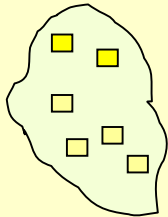
CELE:
on(b4,b2)

WARUNKI:
on (b4, Y₁)

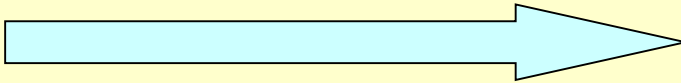
PLAN 1



STAN POCZ

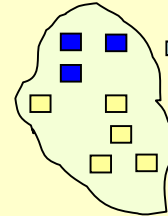


1-PRE



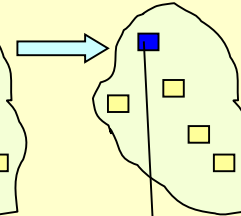
*rozpoczyna się
konstruowanie preplanu*

AKCJA
move(b4, Y₁/on (b4, Y₁), b2)

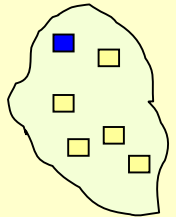


CELE:
clear(b4)
clear(b2)

WARUNKI:
on (b4, Y₁)

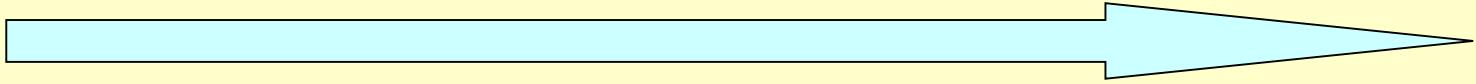


on(b4,b2)

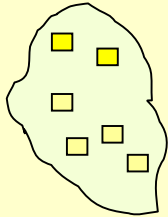


CELE:
on(b4,b2)

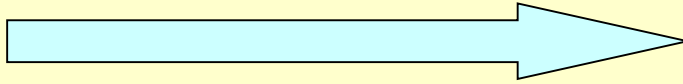
PLAN 1



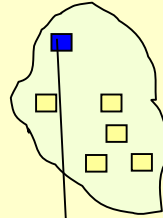
STAN POCZ



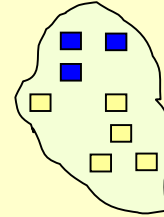
1-PRE



AKCJA
move(b4, Y₁/on (b4, Y₁), b2)

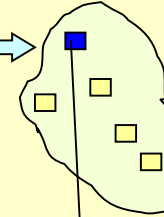


clear(b4)

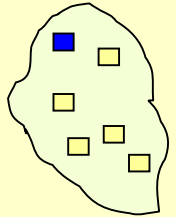


CELE:
clear(b4)
clear(b2)

WARUNKI:
on (b4, Y₁)



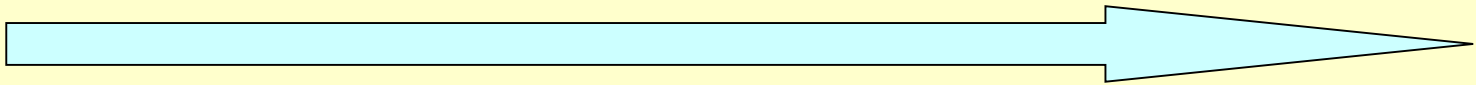
on(b4,b2)



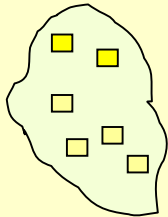
CELE:
on(b4,b2)

*tu będzie
postplan*

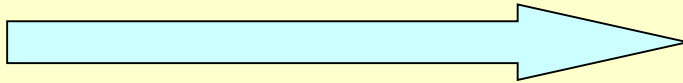
PLAN 1



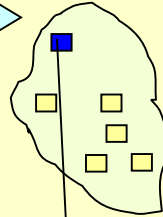
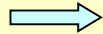
STAN POCZ



1-PRE

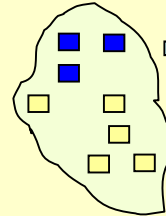


AKCJA
move(X_2 /on(X_2 ,b4), b4, Z_2)



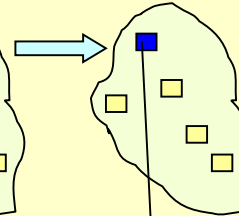
clear(b4)

AKCJA
move(b4, Y_1 /on(b4, Y_1), b2)

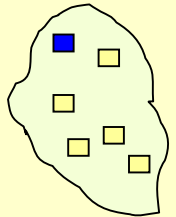


CELE:
clear(b4)
clear(b2)

WARUNKI:
on(b4, Y_1)



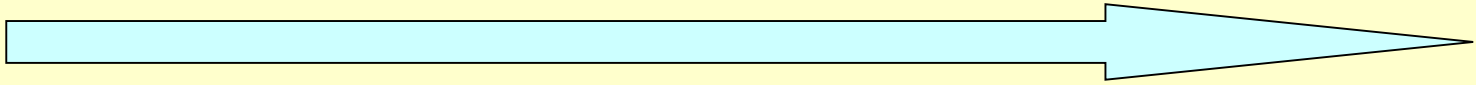
on(b4,b2)



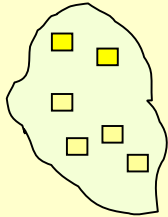
CELE:
on(b4,b2)

*tu będzie
postplan*

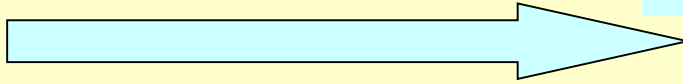
PLAN 1



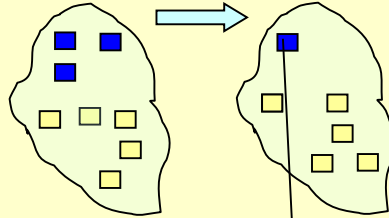
STAN POCZ



1-PRE



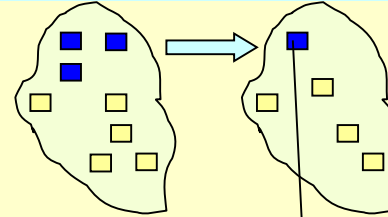
AKCJA
 $\text{move}(X_2/\text{on}(X_2, b_4), b_4, Z_2)$



CELE:
 $\text{clear}(X_2/\text{on}(X_2, b_4))$ $\text{clear}(b_4)$

WARUNKI:
 $\text{clear}(Z_2)$
 $\text{diff}(Z_2, X_2/\text{on}(X_2, b_4))$

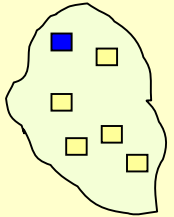
AKCJA
 $\text{move}(b_4, Y_1/\text{on}(b_4, Y_1), b_2)$



CELE:
 $\text{clear}(b_4)$
 $\text{clear}(b_2)$

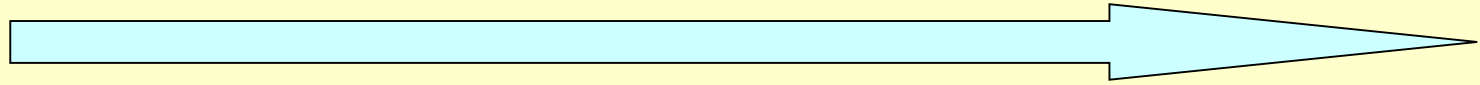
WARUNKI:
 $\text{on}(b_4, Y_1)$

$\text{on}(b_4, b_2)$

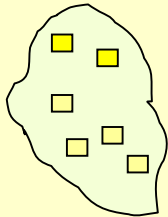


CELE:
 $\text{on}(b_4, b_2)$

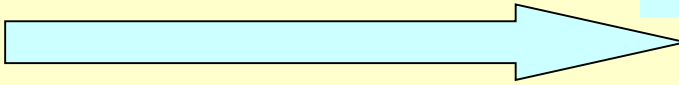
PLAN 1



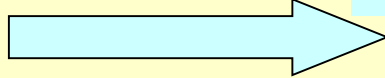
STAN POCZ



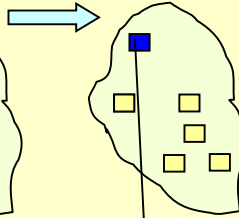
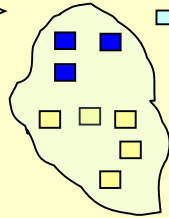
1-PRE



1-PRE
. 2-PRE



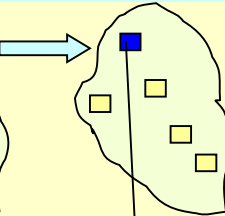
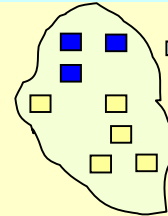
AKCJA
move(X_2 /on (X_2 ,b4), b4, Z_2)



CELE:
clear(X_2 /on (X_2 ,b4))
clear(b4)

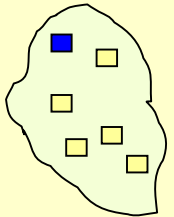
WARUNKI:
clear(Z_2)
diff(Z_2 , X_2 /on (X_2 ,b4))

AKCJA
move(b4, Y_1 /on (b4, Y_1), b2)



CELE:
clear(b4)
clear(b2)
on(b4,b2)

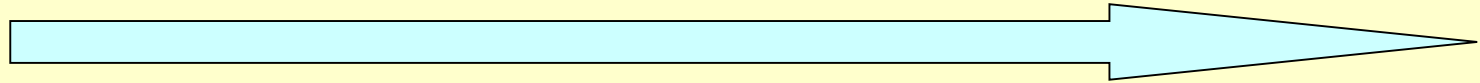
WARUNKI:
on (b4, Y_1)



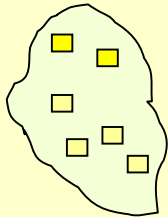
CELE:
on(b4,b2)

*rozpoczyna się
konstruowanie preplanu
dla 1-PRE*

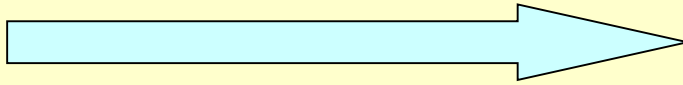
PLAN 1



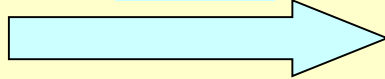
STAN POCZ



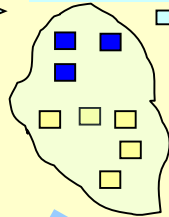
1-PRE



1-PRE
. 2-PRE

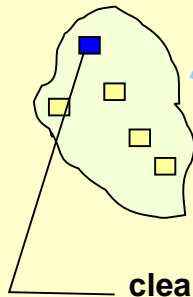


AKCJA
 $\text{move}(X_2/\text{on}(X_2, b4), b4, Z_2)$



CELE:
 $\text{clear}(X_2/\text{on}(X_2, b4))$ $\text{clear}(b4)$

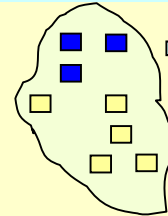
WARUNKI:
 $\text{clear}(Z_2)$
 $\text{diff}(Z_2, X_2/\text{on}(X_2, b4))$



$\text{clear}(X_2/\text{on}(X_2, b4))$

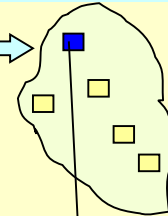
*tu będzie
postplan*

AKCJA
 $\text{move}(b4, Y_1/\text{on}(b4, Y_1), b2)$

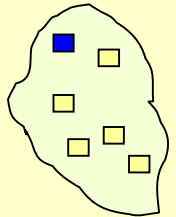


CELE:
 $\text{clear}(b4)$
 $\text{clear}(b2)$

WARUNKI:
 $\text{on}(b4, Y_1)$

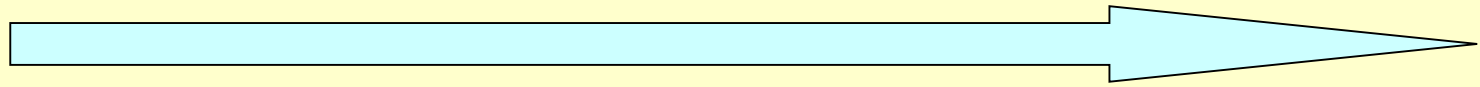


$\text{on}(b4, b2)$

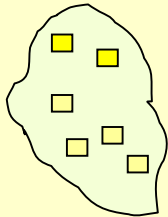


CELE:
 $\text{on}(b4, b2)$

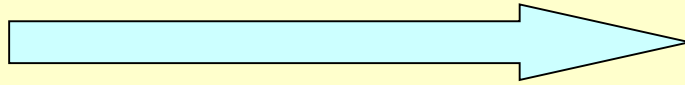
PLAN 1



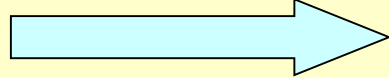
STAN POCZ



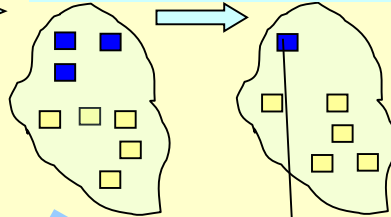
1-PRE



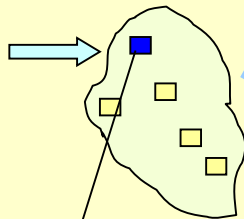
1-PRE
. 2-PRE



AKCJA
move(X_2 /on (X_2 ,b4), b4, Z_2)



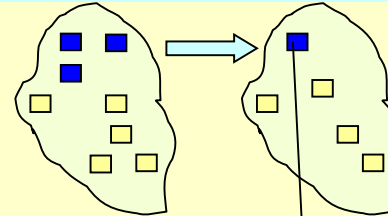
CELE:
clear(X_2 /on (X_2 ,b4)) clear(b4)
WARUNKI:
clear(Z_2)
diff(Z_2 , X_2 /on (X_2 ,b4))



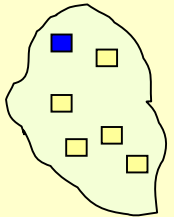
clear(X_2 /on (X_2 ,b4))

*tu będzie
postplan*

AKCJA
move(b4, Y_1 /on (b4, Y_1), b2)

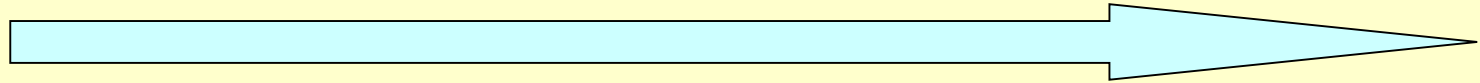


CELE:
clear(b4)
clear(b2)
on(b4,b2)
WARUNKI:
on (b4, Y_1)

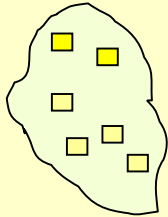


CELE:
on(b4,b2)

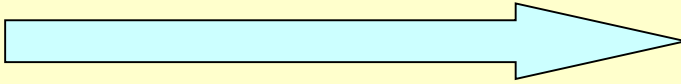
PLAN 1



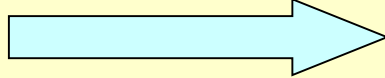
STAN POCZ



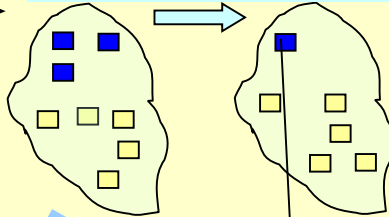
1-PRE



1-PRE
. 2-PRE



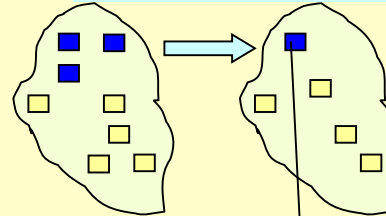
AKCJA
move(X_2 /on (X_2 ,b4), b4, Z_2)



CELE:
clear(X_2 /on (X_2 ,b4))

WARUNKI:
clear(Z_2)
diff(Z_2 , X_2 /on (X_2 ,b4))

AKCJA
move(b4, Y_1 /on (b4, Y_1), b2)

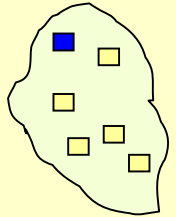


CELE:
clear(b4)
clear(b2)

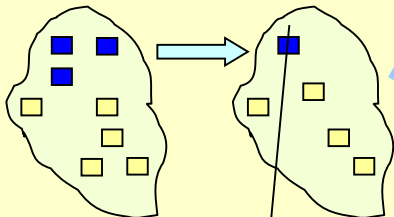
WARUNKI:
on (b4, Y_1)

on(b4,b2)

CELE:
on(b4,b2)



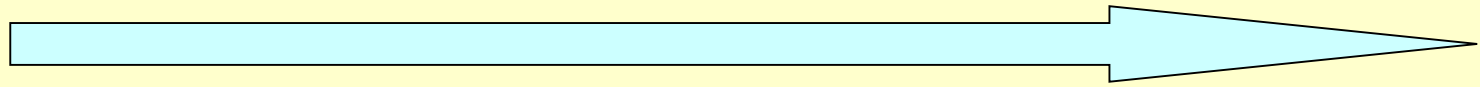
AKCJA
move(X_3 /on (X_3 , X_2 /on (X_2 ,b4)),
 X_2 /on (X_2 ,b4), Z_3)



clear(X_2 /on (X_2 ,b4))

CELE:
clear(X_3 /on (X_3 , X_2 /on (X_2 ,b4)))
WARUNKI:
clear(Z_3)
diff(Z_3 , X_3 /on (X_3 , X_2 /on (X_2 ,b4)))

PLAN 1



STAN POCZ

1-PRE

AKCJA

move(b4, Y₁/on (b4, Y₁), b2)

1-PRE
. 2-PRE

AKCJA

move(X₂/on (X₂,b4), b4, Z₂)

1-PRE
. 2-PRE
. 3-PRE

AKCJA

move(X₃/on (X₃, X₂/on (X₂,b4)),
X₂/on (X₂,b4), Z₃)

CELE:

clear(b4)
clear(b2)

on(b4,b2)

WARUNKI:

on (b4, Y₁)

CELE:

on(b4,b2)

clear(b4)

clear(X₂/on (X₂,b4))

CELE:

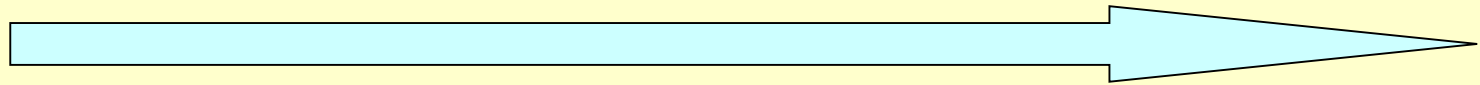
clear(X₃/on (X₃, X₂/on (X₂,b4)))

WARUNKI:

clear(Z₃)

diff(Z₃X₃/on (X₃, X₂/on (X₂,b4)))

PLAN 1



STAN POCZ

1-PRE

AKCJA

move(b4, Y₁/on (b4, Y₁), b2)

1-PRE
. 2-PRE

AKCJA

move(X₂/on (X₂,b4), b4, Z₂)

1-PRE
. 2-PRE
. 3-PRE

AKCJA

move(X₃/on (X₃, X₂/on (X₂,b4)),
X₂/on (X₂,b4), Z₃)

CELE:

clear(b4)
clear(b2)

on(b4,b2)

WARUNKI:

on (b4, Y₁)

CELE:

on(b4,b2)

clear(b4)

clear(X₂/on (X₂,b4))

CELE:

clear(X₃/on (X₃, X₂/on (X₂,b4)))

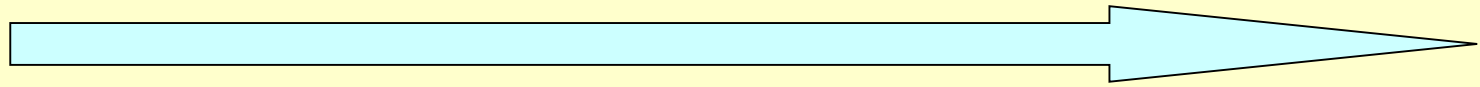
WARUNKI:

clear(Z₃)

diff(Z₃X₃/on (X₃, X₂/on (X₂,b4)))

cel spełniony w stanie pocz

PLAN 1



STAN POCZ

1-PRE

AKCJA

move(b4, Y₁/on (b4, Y₁), b2)

1-PRE
. 2-PRE

AKCJA

move(X₂/on (X₂, b4), b4, Z₂)

1-PRE
. 2-PRE
. 3-PRE

AKCJA

move(X₃/on (X₃, X₂/on (X₂, b4)),
X₂/on (X₂, b4), Z₃)

CELE:

clear(b4)
clear(b2)

on(b4, b2)

WARUNKI:

on (b4, Y₁)

CELE:

on(b4, b2)

clear(b4)

clear(X₂/on (X₂, b4))

CELE:

clear(X₃/on (X₃, X₂/on (X₂, b4)))

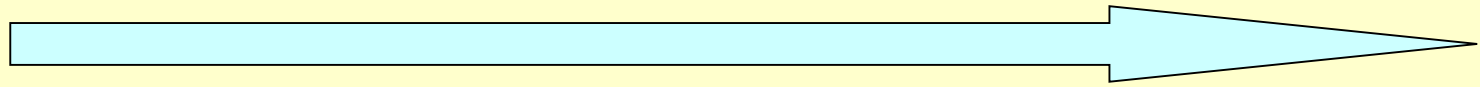
WARUNKI:

clear(Z₃)

diff(Z₃X₃/on (X₃, X₂/on (X₂, b4)))

....więc preplan dla 1-PRE.2-PRE
jest pusty

PLAN 1



STAN POCZ

1-PRE

AKCJA

move(b4, Y₁/on (b4, Y₁), b2)

1-PRE
. 2-PRE

AKCJA

move(X₂/on (X₂,b4), b4, Z₂)

CELE:

clear(b4)
clear(b2)

on(b4,b2)

CELE:
on(b4,b2)

WARUNKI:

on (b4, Y₁)

*plan
pusty*

AKCJA

move(X₃/on (X₃, X₂/on (X₂,b4)),
X₂/on (X₂,b4), Z₃)

clear(b4)

clear(X₂/on (X₂,b4))

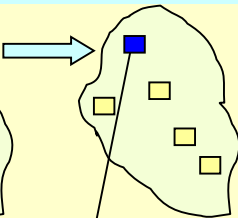
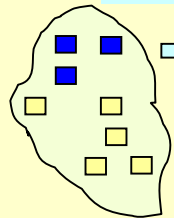
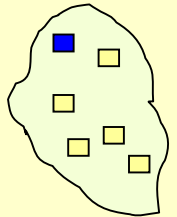
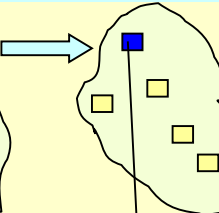
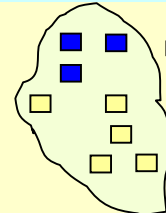
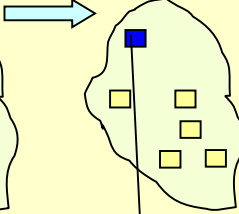
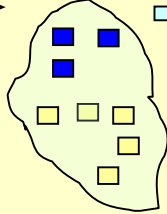
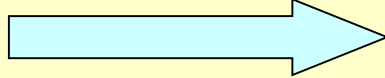
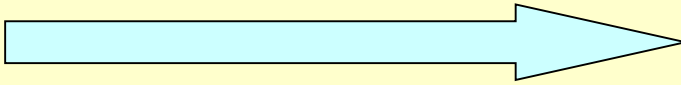
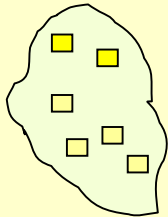
CELE:

clear(X₃/on (X₃, X₂/on (X₂,b4)))

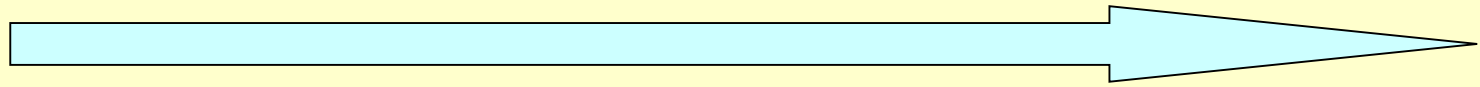
WARUNKI:

clear(Z₃)

diff(Z₃X₃/on (X₃, X₂/on (X₂,b4)))



PLAN 1



STAN POCZ

1-PRE

AKCJA

move(b4, Y₁/on (b4, Y₁), b2)

1-PRE
. 2-PRE

AKCJA

move(X₂/on (X₂,b4), b4, Z₂)

CELE:

clear(b4)
clear(b2)

on(b4,b2)

CELE:

on(b4,b2)

WARUNKI:

on (b4, Y₁)

plan
pusty

AKCJA

move(b3,b1,p2)

CELE:

clear(b1)

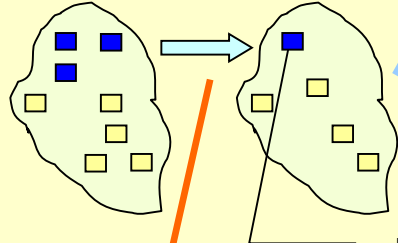
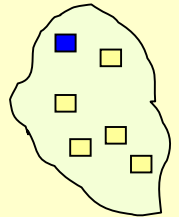
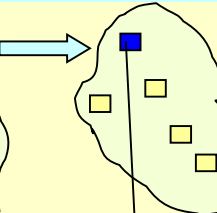
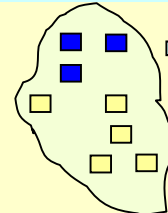
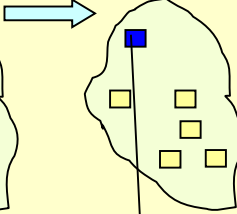
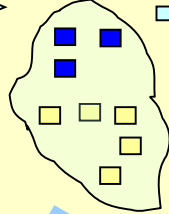
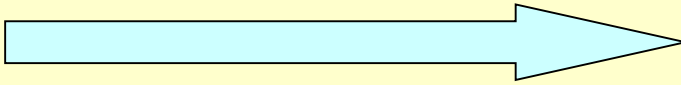
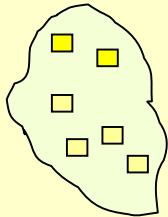
WARUNKI:

clear(Z₂)
diff(Z₂, X₂/on (X₂,b4))

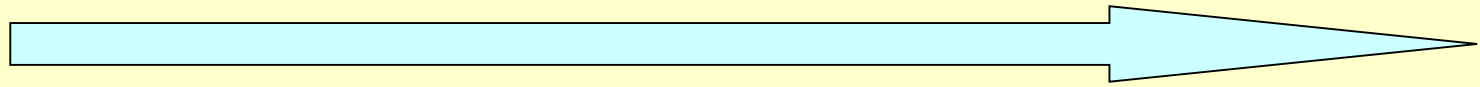
clear(b4)

clear(b1)

ukonkretnienie
i wykonanie akcji



PLAN 1



STAN POCZ

1-PRE

AKCJA

move(b4, Y₁/on (b4, Y₁), b2)

1-PRE
. 2-PRE

AKCJA

move(X₂/on (X₂, b4), b4, Z₂)

CELE:

clear(b4)
clear(b2)

on(b4, b2)

CELE:
on(b4, b2)

WARUNKI:
on (b4, Y₁)

plan
pusty

AKCJA
move(b3, b1, p2)

CELE:

clear(b1)

WARUNKI:

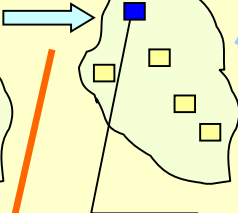
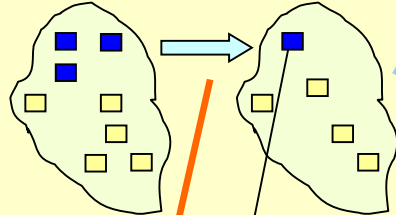
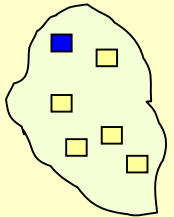
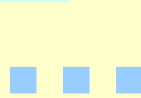
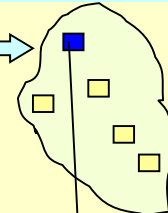
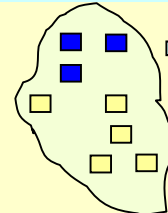
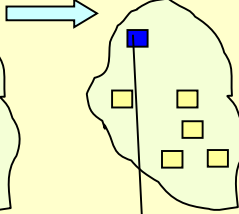
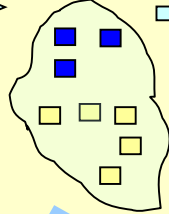
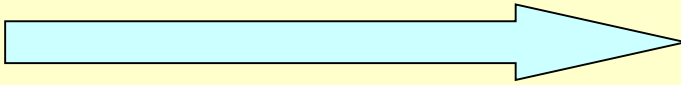
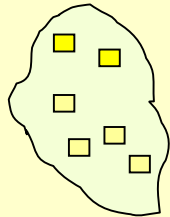
clear(Z₂)
diff(Z₂, X₂/on (X₂, b4))

clear(b4)

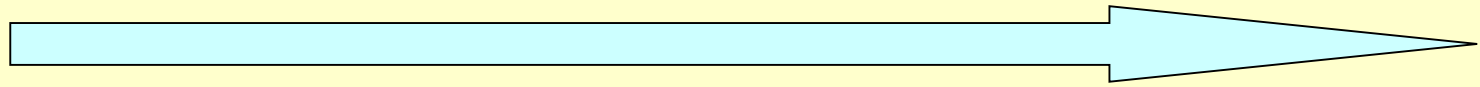
clear(b1)

ukonkretnienie
i wykonanie akcji

osiągnięty
(ukonkretniony) cel



PLAN 1



STAN POCZ

1-PRE

AKCJA

move(b4, Y₁/on (b4, Y₁), b2)

1-PRE
. 2-PRE

AKCJA

move(X₂/on (X₂,b4), b4, Z₂)

CELE:

clear(b4)
clear(b2)

on(b4,b2)

CELE:
on(b4,b2)

WARUNKI:
on (b4, Y₁)

plan
pusty

AKCJA

move(b3,b1,p2)

CELE:

clear(b1)

WARUNKI:

clear(Z₂)
diff(Z₂, X₂/on (X₂,b4))

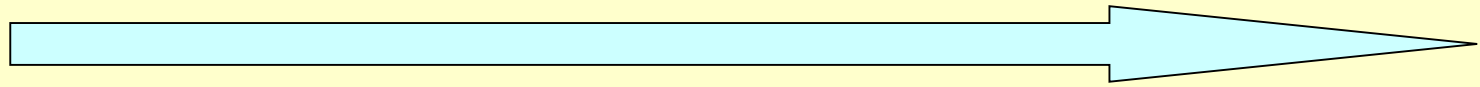
clear(b4)

clear(b1)

STAN POŚR 2

DLA PLANU 1-PRE . 2-PRE

PLAN 1



STAN POCZ

1-PRE

AKCJA

move($b_4, Y_1/on(b_4, Y_1), b_2$)

1-PRE
. 2-PRE

AKCJA

move($X_2/on(X_2, b_4), b_4, Z_2$)

CELE:

clear(b_4)
clear(b_2)

on(b_4, b_2)

CELE:
on(b_4, b_2)

WARUNKI:
on(b_4, Y_1)

plan
pusty

1-PRE
.2-PRE
.3-POST

CELE:

clear(b_1)

clear(b_4)

WARUNKI:

clear(Z_2)
diff($Z_2, X_2/on(X_2, b_4)$)

teraz postplan
dla 1-PRE.2-PRE

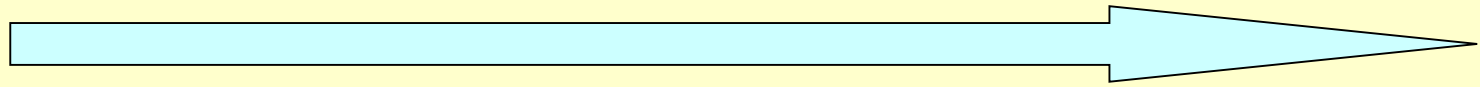
AKCJA
move(b_3, b_1, p_2)

clear(b_1)

STAN POŚR 2

DLA PLANU 1-PRE . 2-PRE

PLAN 1



STAN POCZ

1-PRE

AKCJA

move(b4, Y₁/on (b4, Y₁), b2)

1-PRE
. 2-PRE

AKCJA

move(X₂/on (X₂,b4), b4, Z₂)

CELE:

clear(b4)
clear(b2)

on(b4,b2)

CELE:
on(b4,b2)

WARUNKI:
on (b4, Y₁)

plan
pusty

1-PRE
.2-PRE
.3-POST

CELE:

clear(b1)

clear(b4)

WARUNKI:

clear(Z₂)
diff(Z₂, X₂/on (X₂,b4))

nie ma dalszych celów

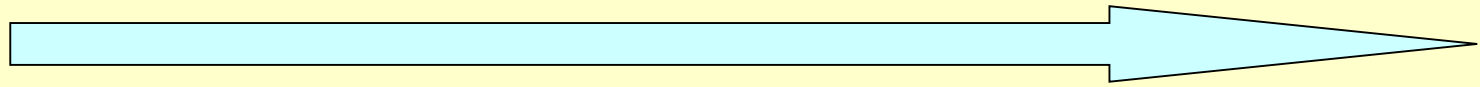
AKCJA
move(b3,b1,p2)

clear(b1)

STAN POŚR 2

DLA PLANU 1-PRE . 2-PRE

PLAN 1



STAN POCZ

1-PRE

AKCJA

move(b4, Y₁/on (b4, Y₁), b2)

1-PRE
. 2-PRE

AKCJA

move(X₂/on (X₂,b4), b4, Z₂)

CELE:

clear(b4)
clear(b2)

on(b4,b2)

CELE:
on(b4,b2)

WARUNKI:
on (b4, Y₁)

plan
pusty

1-PRE
.2-PRE
.3-POST

CELE:

clear(b1)

WARUNKI:

clear(Z₂)
diff(Z₂, X₂/on (X₂,b4))

clear(b4)

AKCJA

move(b3,b1,p2)

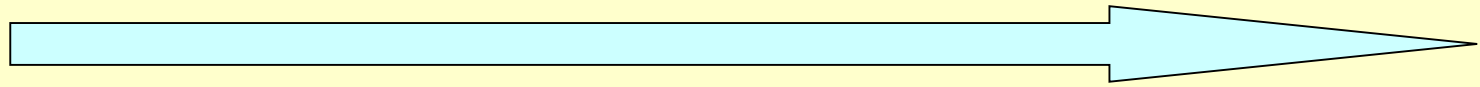
clear(b1)

....więc plan 1-PRE.2-PRE .3-POST
jest pusty

STAN POŚR 2

DLA PLANU 1-PRE . 2-PRE

PLAN 1



STAN POCZ

1-PRE

AKCJA

move(b_4, Y_1 /on (b_4, Y_1), b_2)

1-PRE
. 2-PRE

AKCJA

move(X_2 /on (X_2, b_4), b_4, Z_2)

CELE:

clear(b_4)
clear(b_2)

on(b_4, b_2)

CELE:

on(b_4, b_2)

WARUNKI:
on (b_4, Y_1)

plan
pusty

AKCJA
move(b_3, b_1, p_2)

plan
pusty

CELE:
clear(b_1)

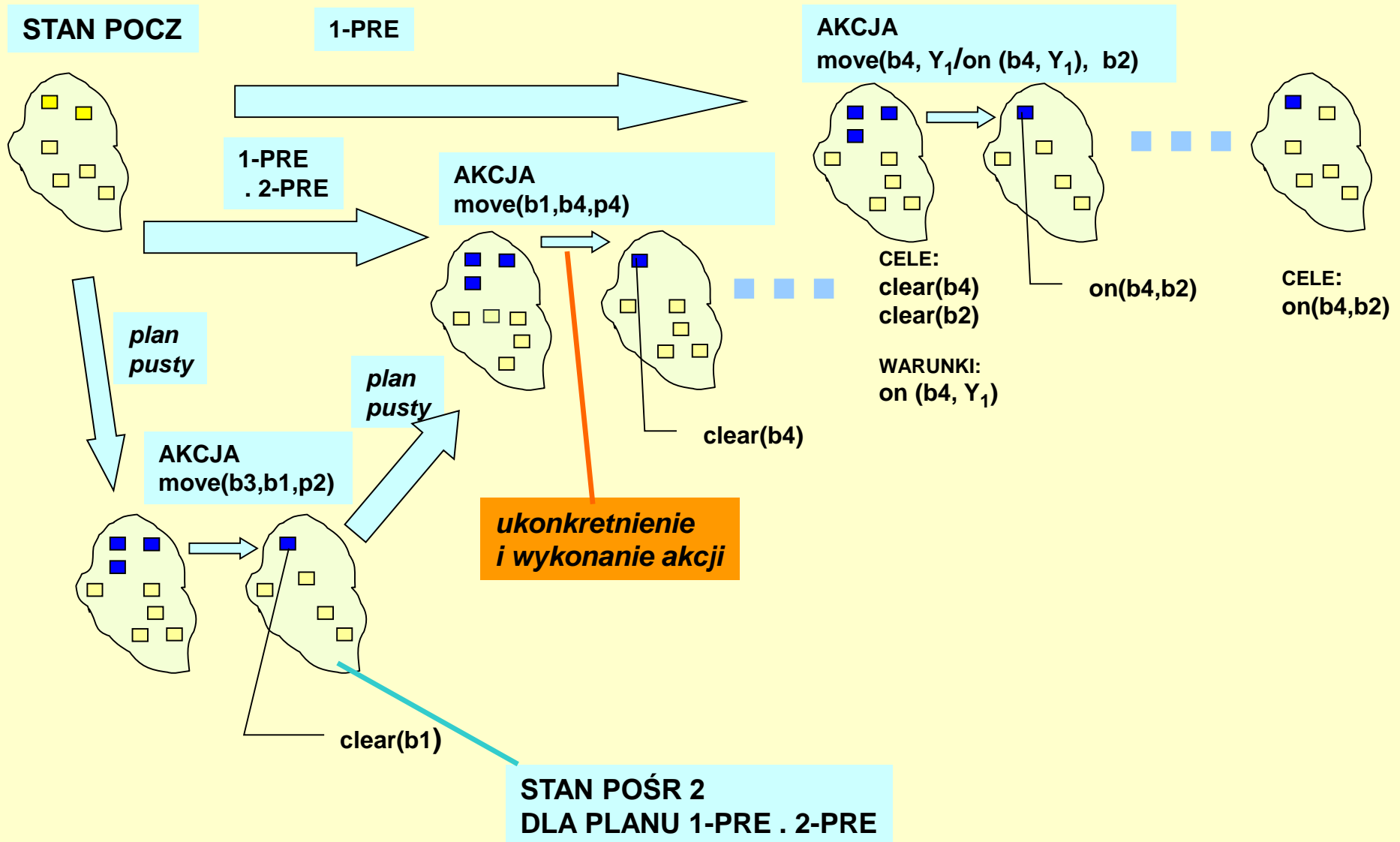
WARUNKI:
clear(Z_2)
diff(Z_2, X_2 /on (X_2, b_4))

clear(b_4)

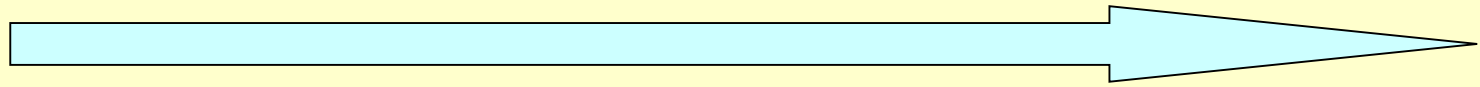
clear(b_1)

STAN POŚR 2

DLA PLANU 1-PRE . 2-PRE



PLAN 1



STAN POCZ

1-PRE

AKCJA

move(b4, Y₁/on (b4, Y₁), b2)

1-PRE
. 2-PRE

AKCJA
move(b1,b4,p4)

CELE:

clear(b4)
clear(b2)

on(b4,b2)

CELE:
on(b4,b2)

plan
pusty

AKCJA
move(b3,b1,p2)

plan
pusty

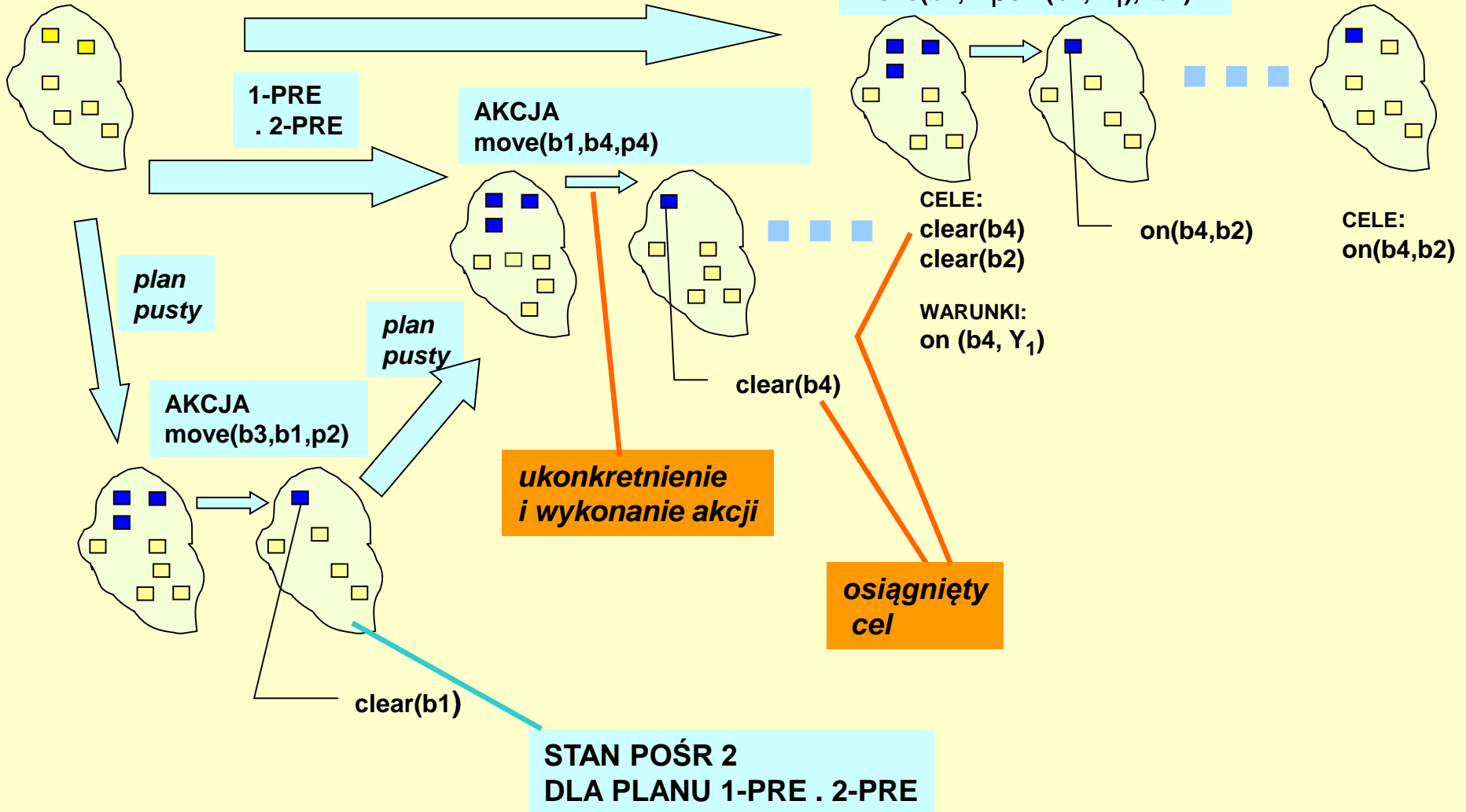
clear(b4)

ukonkretnienie
i wykonanie akcji

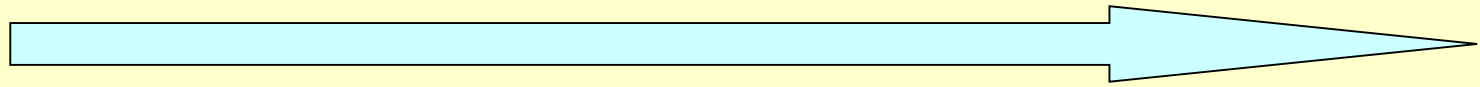
osiągnięty
cel

clear(b1)

STAN POŚR 2
DLA PLANU 1-PRE . 2-PRE



PLAN 1



STAN POCZ

1-PRE

1-PRE
. 2-PRE

AKCJA
move(b4, Y₁/on (b4, Y₁), b2)

AKCJA
move(b1,b4,p4)

CELE:
clear(b4)
clear(b2)

on(b4,b2)

CELE:
on(b4,b2)

WARUNKI:
on (b4, Y₁)

clear(b4)

STAN POŚR 2
DLA PLANU 1-PRE . 2-PRE

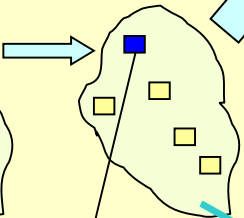
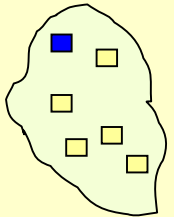
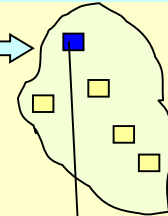
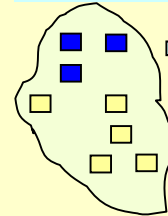
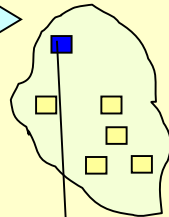
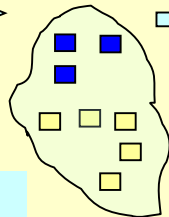
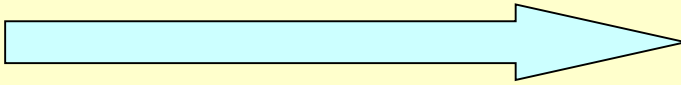
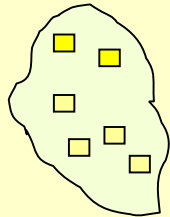
plan
pusty

AKCJA
move(b3,b1,p2)

plan
pusty

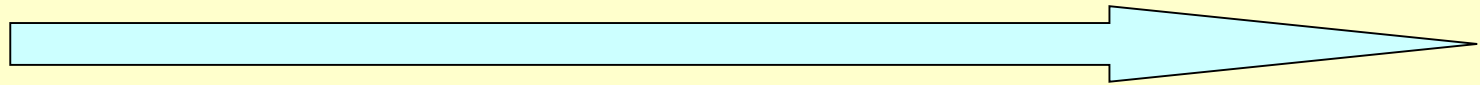
clear(b1)

STAN POŚR 2
DLA PLANU 1-PRE . 2-PRE



clear(b1)

PLAN 1



STAN POCZ

1-PRE

AKCJA

move(b4, Y₁/on (b4, Y₁), b2)

1-PRE
. 2-PRE

AKCJA

move(b1,b4,p4)

CELE:

clear(b4)
clear(b2)

on(b4,b2)

CELE:
on(b4,b2)

*plan
pusty*

AKCJA
move(b3,b1,p2)

*plan
pusty*

1-PRE
. 2-POST

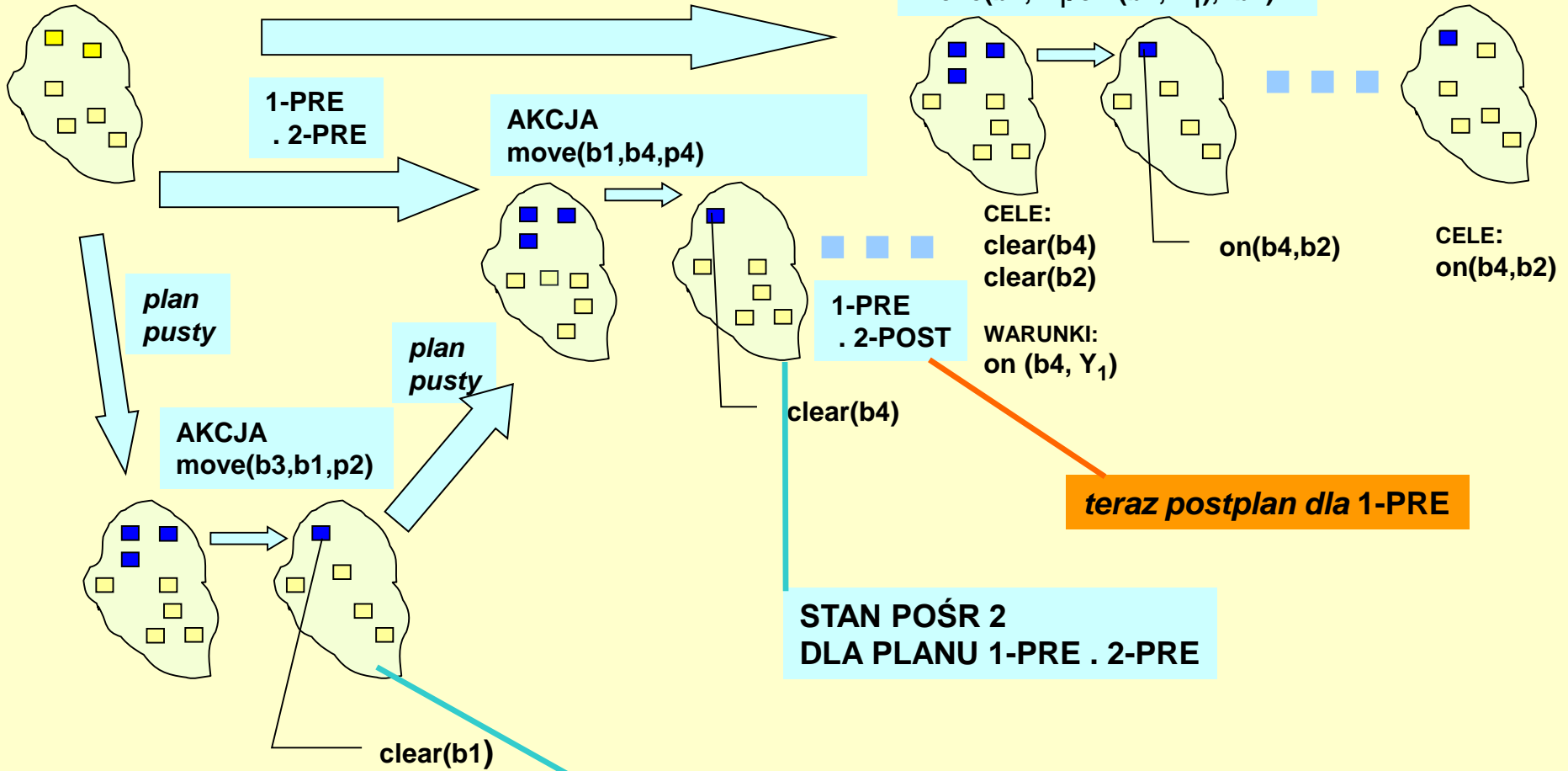
clear(b4)

teraz postplan dla 1-PRE

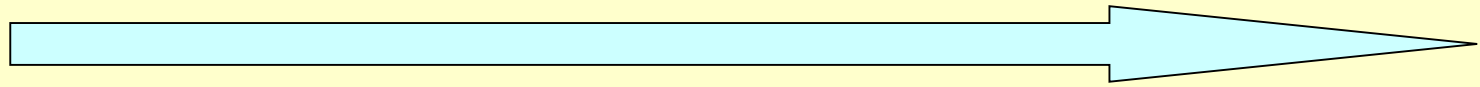
STAN POŚR 2
DLA PLANU 1-PRE . 2-PRE

clear(b1)

STAN POŚR 2
DLA PLANU 1-PRE . 2-PRE



PLAN 1



STAN POCZ

1-PRE

AKCJA

move(b4, Y₁/on (b4, Y₁), b2)

1-PRE
. 2-PRE

AKCJA

move(b1,b4,p4)

CELE:

clear(b4)
clear(b2)

on(b4,b2)

CELE:
on(b4,b2)

1-PRE
. 2-POST

WARUNKI:
on (b4, Y₁)

drugi cel
spełniony
w stanie pośr 2

STAN POŚR 2
DLA PLANU 1-PRE . 2-PRE

STAN POŚR 2
DLA PLANU 1-PRE . 2-PRE

plan
pusty

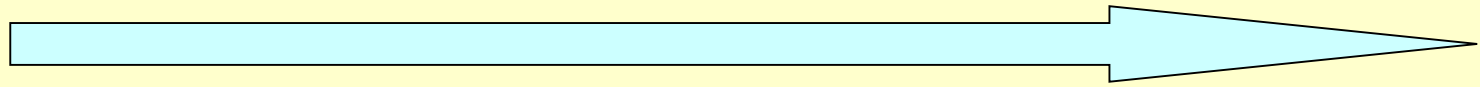
plan
pusty

AKCJA
move(b3,b1,p2)

clear(b1)

clear(b4)

PLAN 1



STAN POCZ

1-PRE

AKCJA

move(b4, Y₁/on (b4, Y₁), b2)

1-PRE
. 2-PRE

AKCJA

move(b1,b4,p4)

CELE:

clear(b4)
clear(b2)

on(b4,b2)

CELE:
on(b4,b2)

*plan
pusty*

AKCJA
move(b3,b1,p2)

*plan
pusty*

1-PRE
. 2-POST

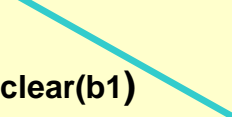
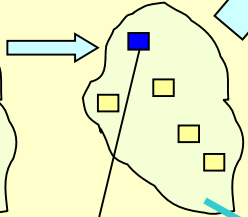
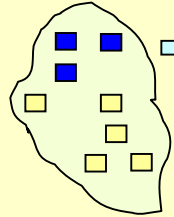
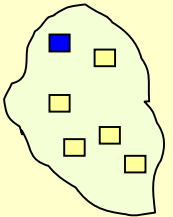
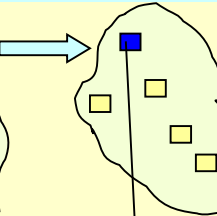
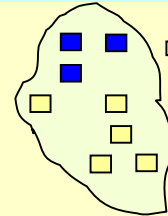
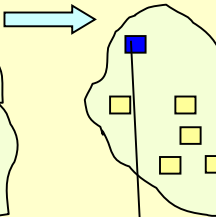
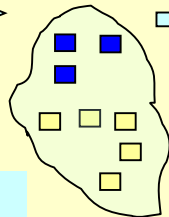
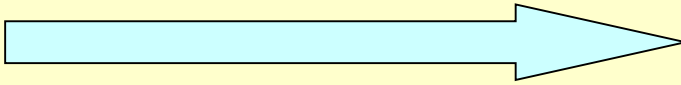
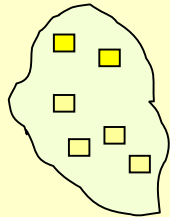
clear(b4)

*....więc plan 1-PRE.2-POST
jest pusty*

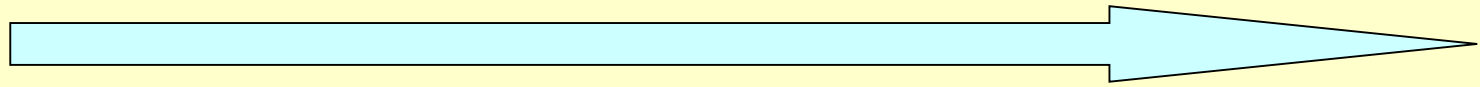
STAN POŚR 2
DLA PLANU 1-PRE . 2-PRE

clear(b1)

STAN POŚR 2
DLA PLANU 1-PRE . 2-PRE



PLAN 1



STAN POCZ

1-PRE

AKCJA

move(b4, Y₁/on (b4, Y₁), b2)

1-PRE
. 2-PRE

AKCJA

move(b1,b4,p4)

CELE:

clear(b4)
clear(b2)

on(b4,b2)

CELE:

on(b4,b2)

plan
pusty

AKCJA

move(b3,b1,p2)

plan
pusty

plan
pusty

clear(b4)

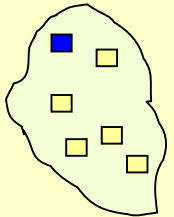
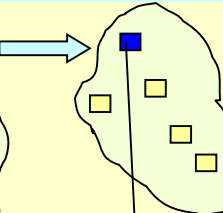
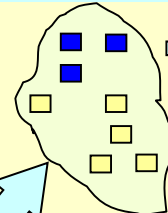
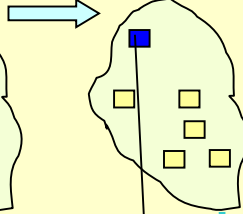
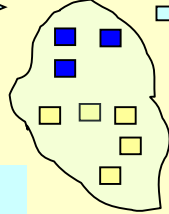
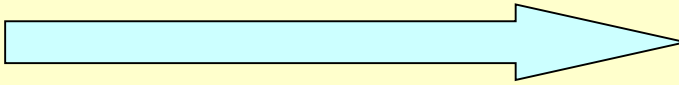
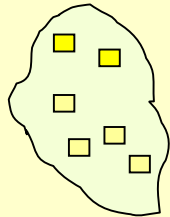
STAN POŚR 2

DLA PLANU 1-PRE . 2-PRE

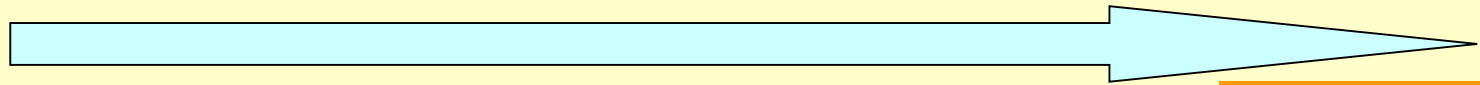
clear(b1)

STAN POŚR 2

DLA PLANU 1-PRE . 2-PRE



PLAN 1



STAN POCZ

1-PRE

**ukonkretnienie
i wykonanie akcji**

1-PRE
. 2-PRE

AKCJA
move(b1,b4,p2)

AKCJA
move(b4, p1,b2)

*plan
pusty*

on(b4,b2)

CELE:
on(b4,b2)

*plan
pusty*

AKCJA
move(b3,b1,p4)

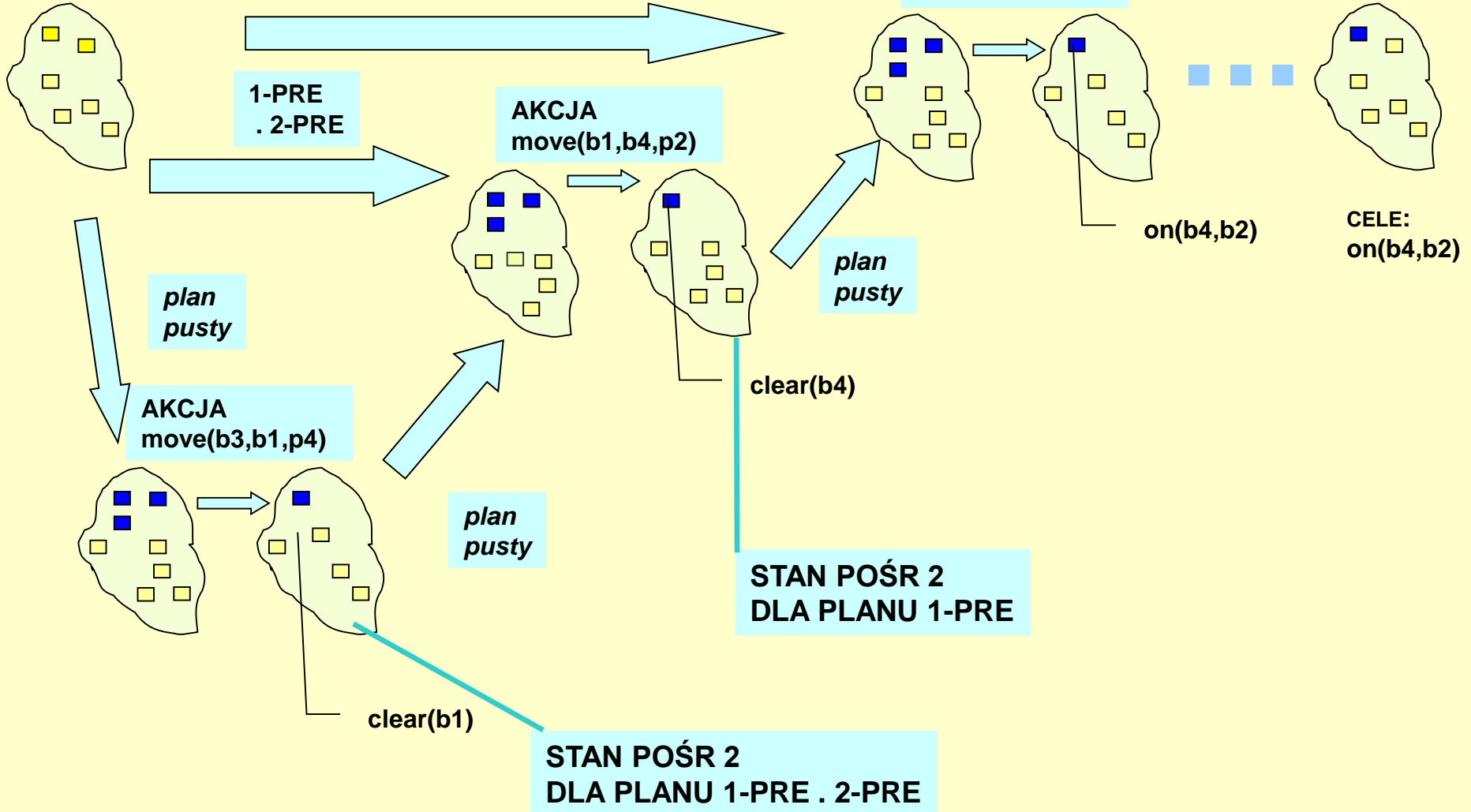
clear(b4)

STAN POŚR 2
DLA PLANU 1-PRE

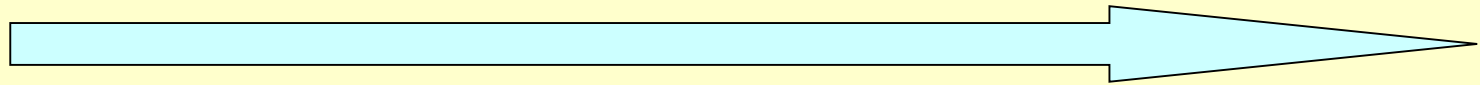
*plan
pusty*

clear(b1)

STAN POŚR 2
DLA PLANU 1-PRE . 2-PRE



PLAN 1



STAN POCZ

1-PRE

AKCJA
move(b4, p1, b2)

1-PRE
. 2-PRE

AKCJA
move(b1, b4, p2)

*plan
pusty*

*plan
pusty*

AKCJA
move(b3, b1, p4)

*plan
pusty*

clear(b4)

STAN POŚR 2
DLA PLANU 1

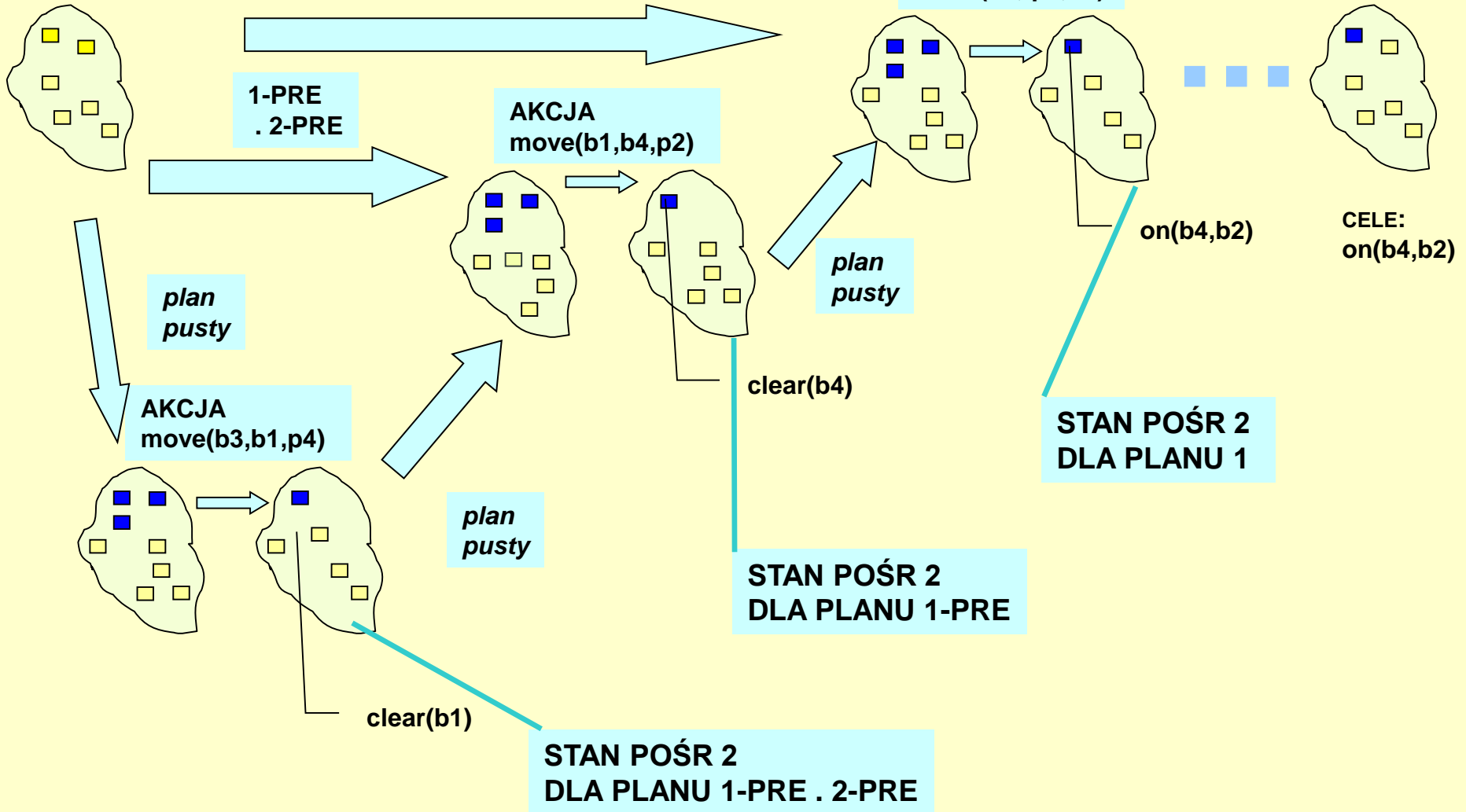
STAN POŚR 2
DLA PLANU 1-PRE

clear(b1)

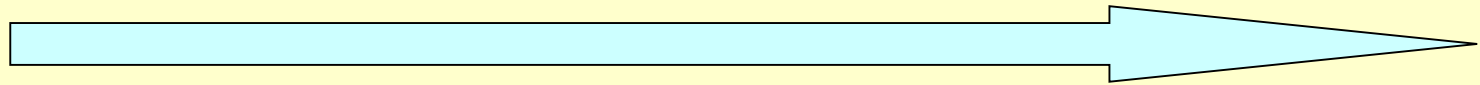
STAN POŚR 2
DLA PLANU 1-PRE . 2-PRE

on(b4, b2)

CELE:
on(b4, b2)



PLAN 1



STAN POCZ

1-PRE

1-PRE
. 2-PRE

AKCJA
move(b4, p1, b2)

teraz postplan
dla planu 1

AKCJA
move(b1, b4, p2)

plan
pusty

clear(b4)

on(b4, b2)

CELE:
on(b4, b2)

plan
pusty

AKCJA
move(b3, b1, p4)

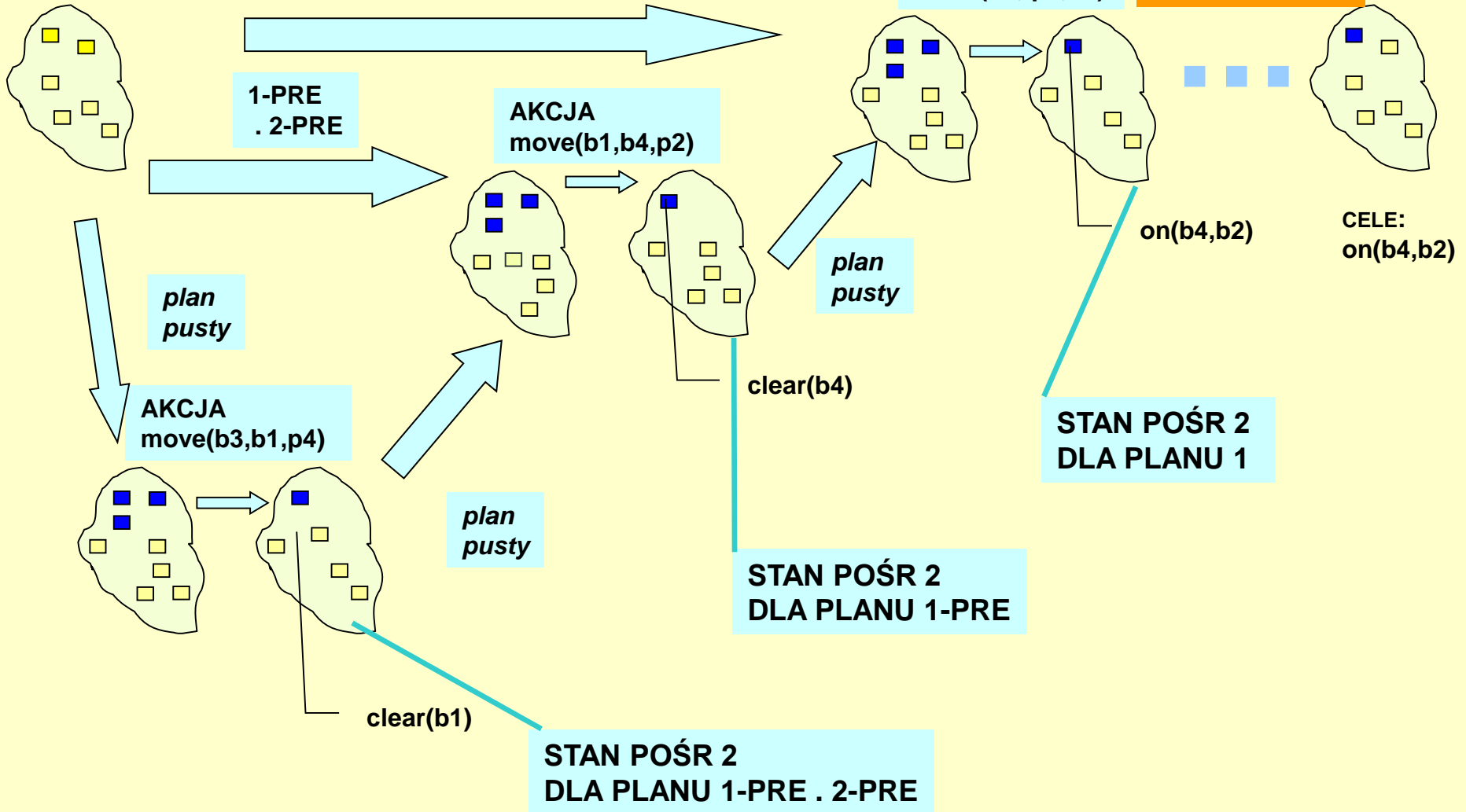
plan
pusty

STAN POŚR 2
DLA PLANU 1-PRE

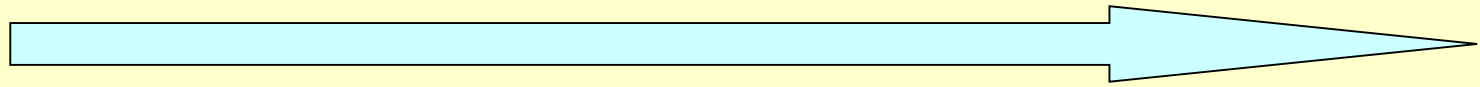
STAN POŚR 2
DLA PLANU 1

clear(b1)

STAN POŚR 2
DLA PLANU 1-PRE . 2-PRE

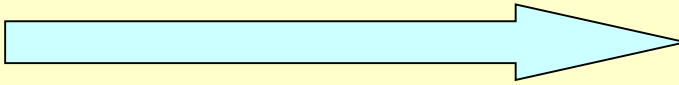
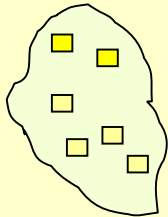


PLAN 1



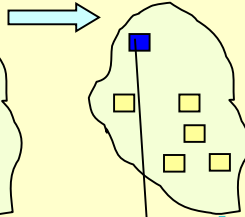
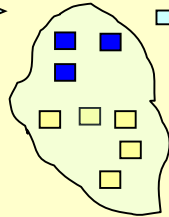
STAN POCZ

1-PRE



1-PRE
. 2-PRE

AKCJA
move(b1,b4,p2)

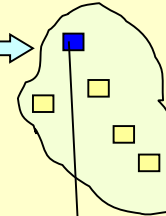
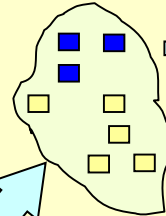


plan
pusty

clear(b4)

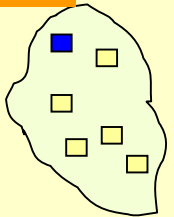
STAN POŚR 2
DLA PLANU 1-PRE

AKCJA
move(b4, p1,b2)



teraz postplan
dla planu 1

...



on(b4,b2)

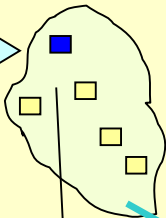
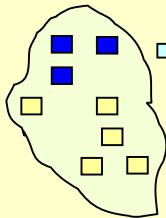
CELE:
on(b4,b2)

nie ma dalszych celów

STAN POŚR 2
DLA PLANU 1

plan
pusty

AKCJA
move(b3,b1,p4)

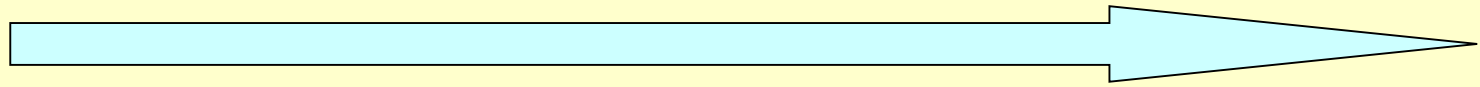


plan
pusty

clear(b1)

STAN POŚR 2
DLA PLANU 1-PRE . 2-PRE

PLAN 1



STAN POCZ

1-PRE

1-PRE
. 2-PRE

AKCJA
move(b4, p1, b2)

....więc plan 1-POST
jest pusty

AKCJA
move(b1, b4, p2)

plan
pusty

clear(b4)

on(b4, b2)

CELE:
on(b4, b2)

STAN POŚR 2
DLA PLANU 1

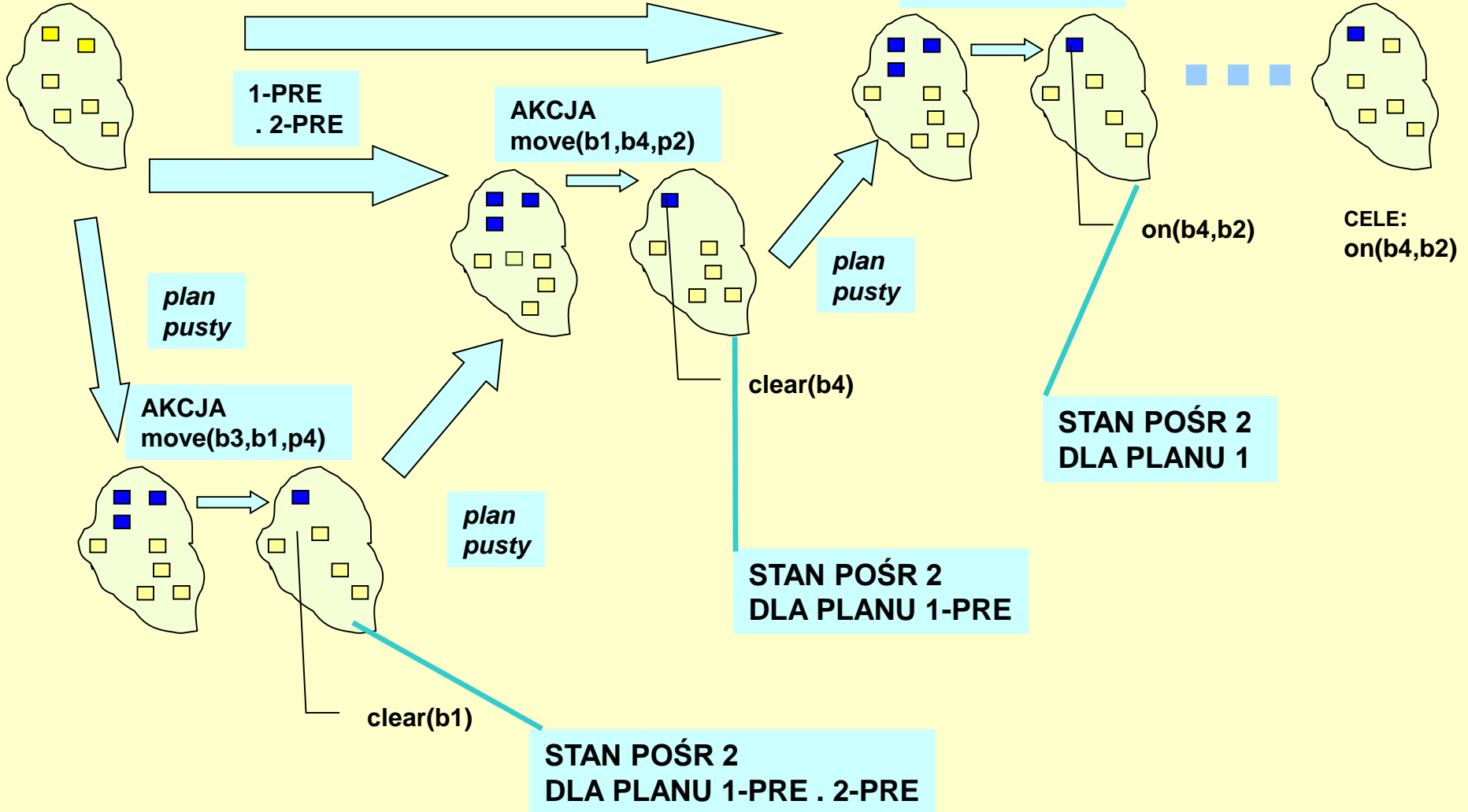
AKCJA
move(b3, b1, p4)

plan
pusty

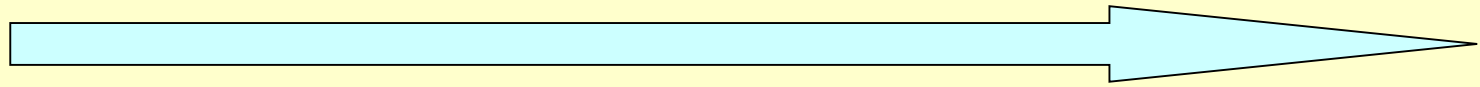
STAN POŚR 2
DLA PLANU 1-PRE

clear(b1)

STAN POŚR 2
DLA PLANU 1-PRE . 2-PRE



PLAN 1



STAN POCZ

1-PRE

AKCJA
move(b4, p1, b2)

*plan
pusty*

1-PRE
. 2-PRE

AKCJA
move(b1, b4, p2)

*plan
pusty*

*plan
pusty*

AKCJA
move(b3, b1, p4)

*plan
pusty*

clear(b4)

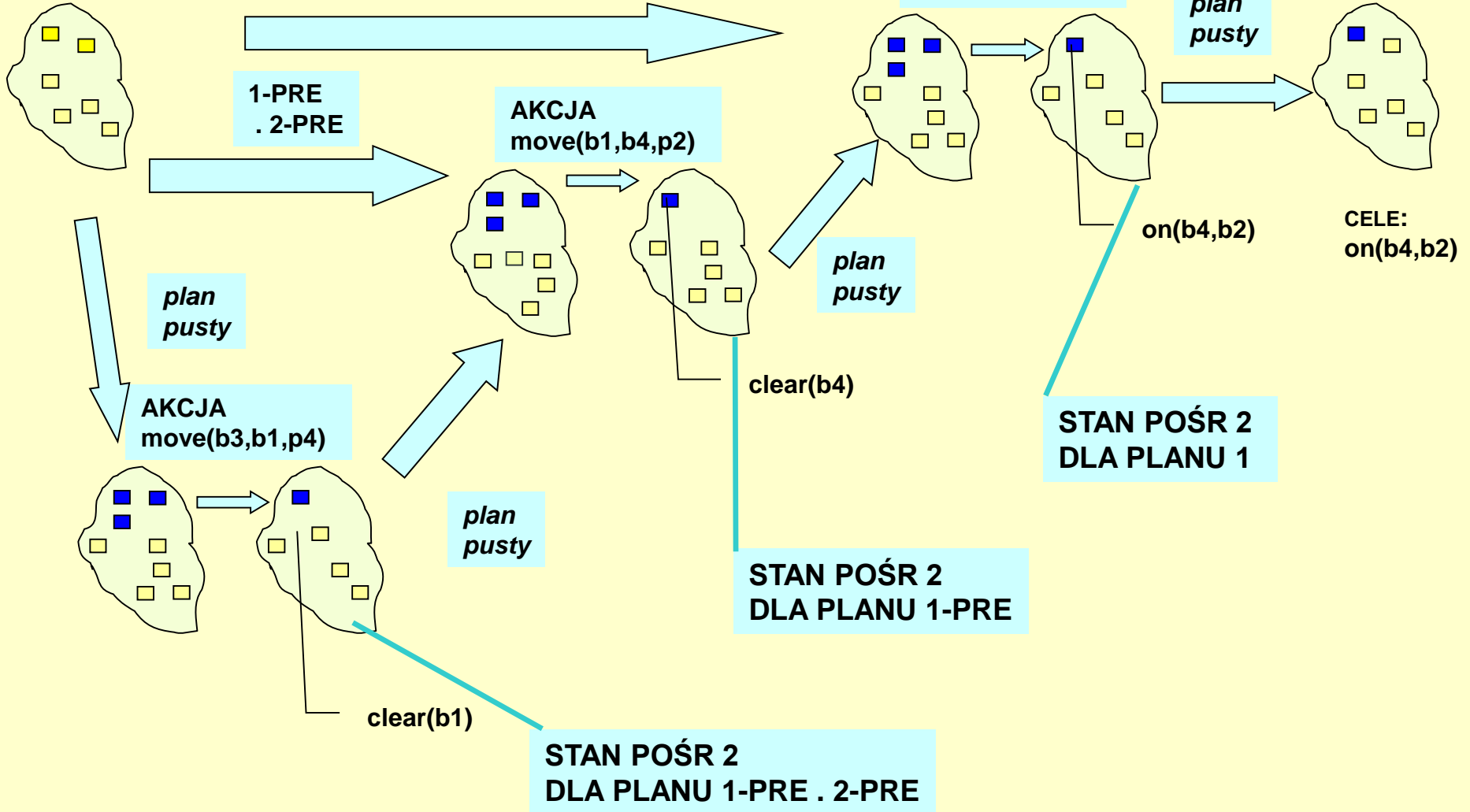
STAN POŚR 2
DLA PLANU 1

STAN POŚR 2
DLA PLANU 1-PRE

clear(b1)

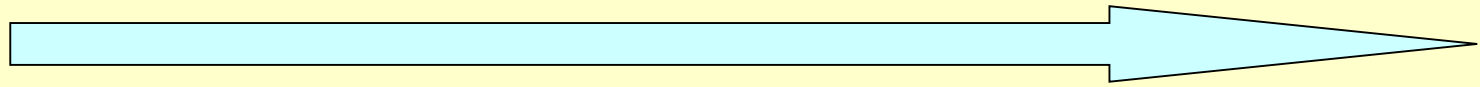
STAN POŚR 2
DLA PLANU 1-PRE . 2-PRE

CELE:
on(b4, b2)



***Plan zbudowany
--na następnym slajdzie
pełny schemat***

PLAN 1



STAN POCZ

1-PRE

1-PRE
. 2-PRE

AKCJA
move(b1,b4,p2)

AKCJA
move(b4, p1,b2)

plan
pusty

plan
pusty

AKCJA
move(b3,b1,p4)

plan
pusty

clear(b4)

STAN POŚR 2
DLA PLANU 1

plan
pusty

STAN POŚR 2
DLA PLANU 1-PRE

clear(b1)

STAN POŚR 2
DLA PLANU 1-PRE . 2-PRE

PLAN 1:

[move(b3,b1,p4),
move(b1,b4,p2),
move(b4,p1,b2)]

CELE:
on(b4,b2)

on(b4,b2)

***Koniec
przykładu***