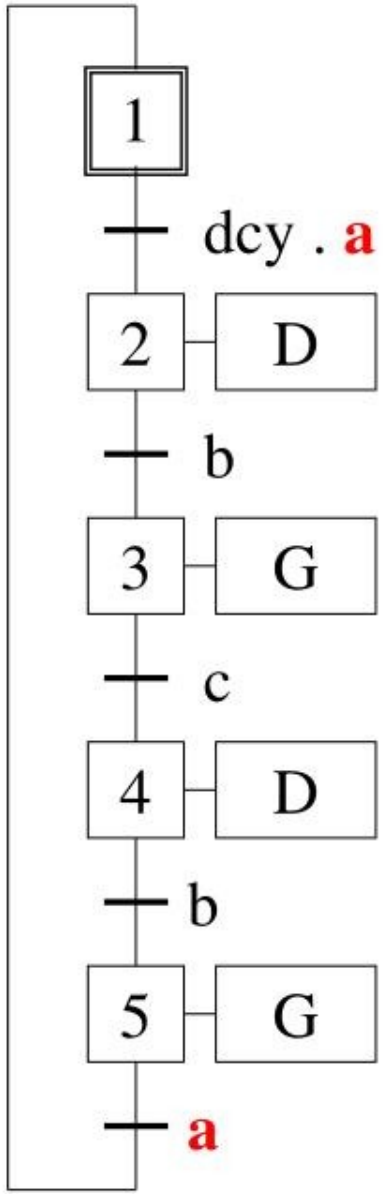
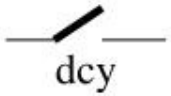
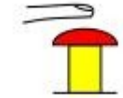
GRAFCET
à séquence unique

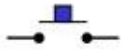




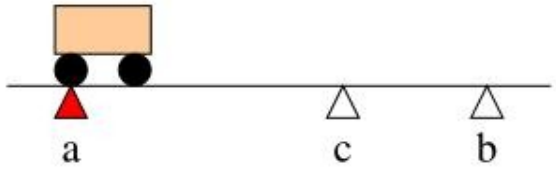




AU « dur »



AU « doux »



Cahier des charges:

Après l'ordre de départ cycle « dcy », le chariot part jusque b, revient en c, repart en b puis rentre en a

Capteurs:

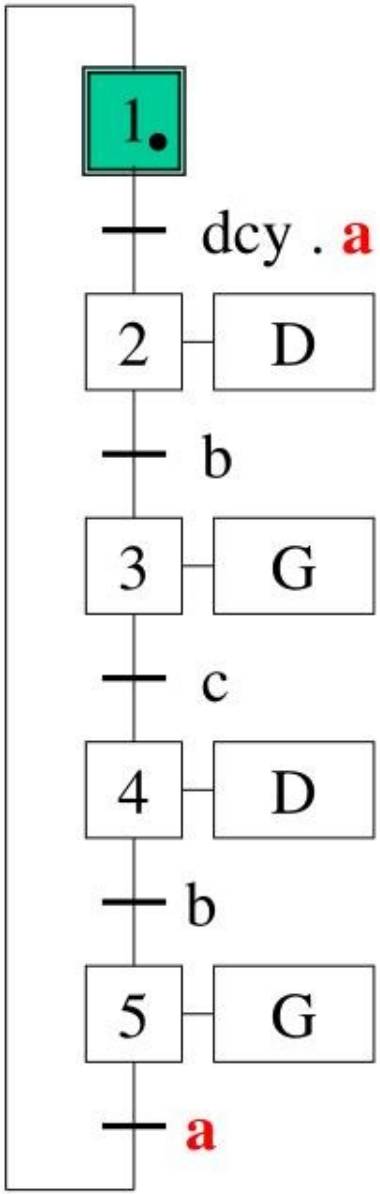
- a : chariot à gauche
- b : chariot à droite

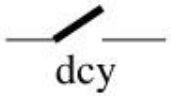
Actionneurs:

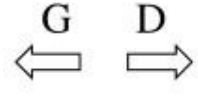
- D : aller à droite
- G : aller à gauche

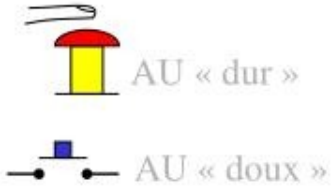
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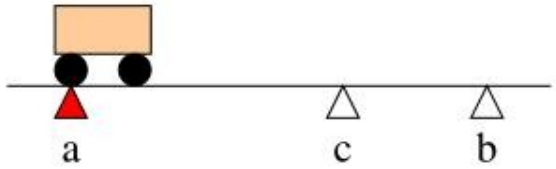
GRAFCET
à séquence unique











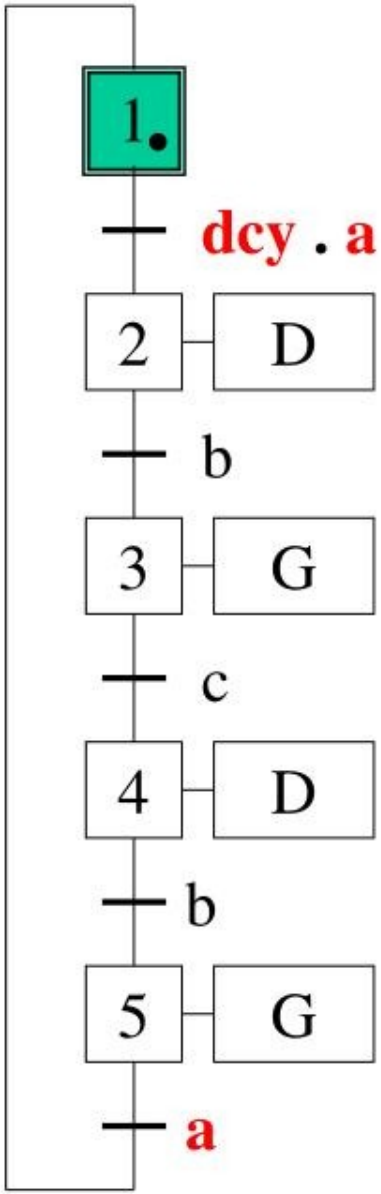
Initialisation du Grafcet :

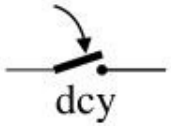
activation de(s)
étape(s) initiale(s)

La transition 1-2 est validée

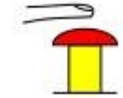
WWW.DZPEN.COM | قلم الجزائر

GRAFCET
à séquence unique

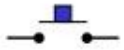




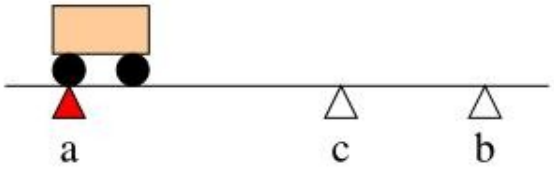
G D



AU « dur »



AU « doux »



Ordre de marche ⇔ dcy = 1

⇓

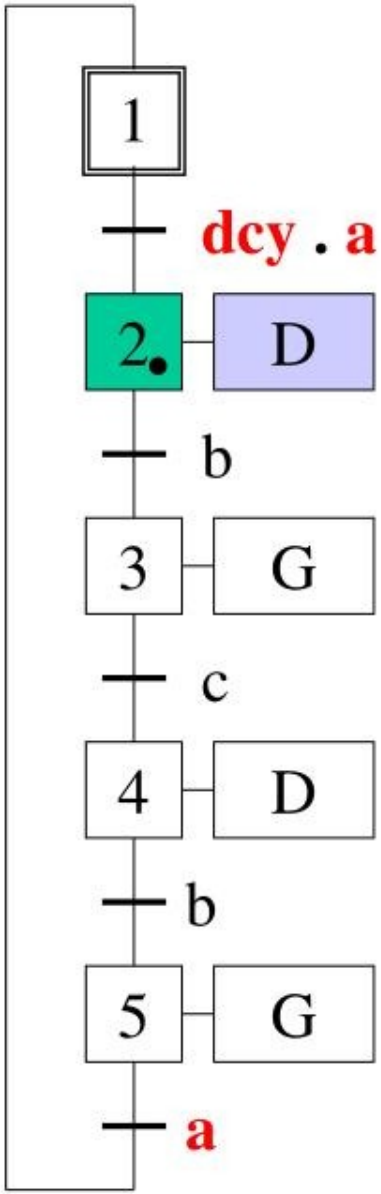
La réceptivité « dcy.a » est vraie
&
la transition est validée

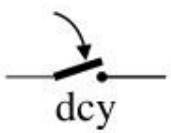
⇓

La transition 1-2 est franchissable

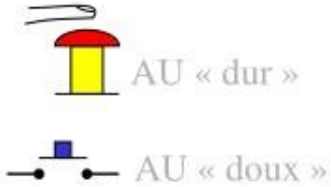
WWW.DZPEN.COM | قلم الجزائر

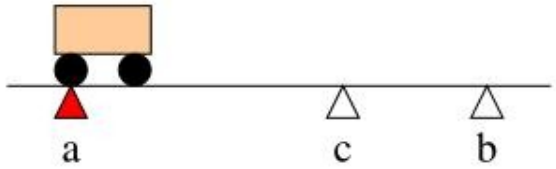
GRAFCET
à séquence unique











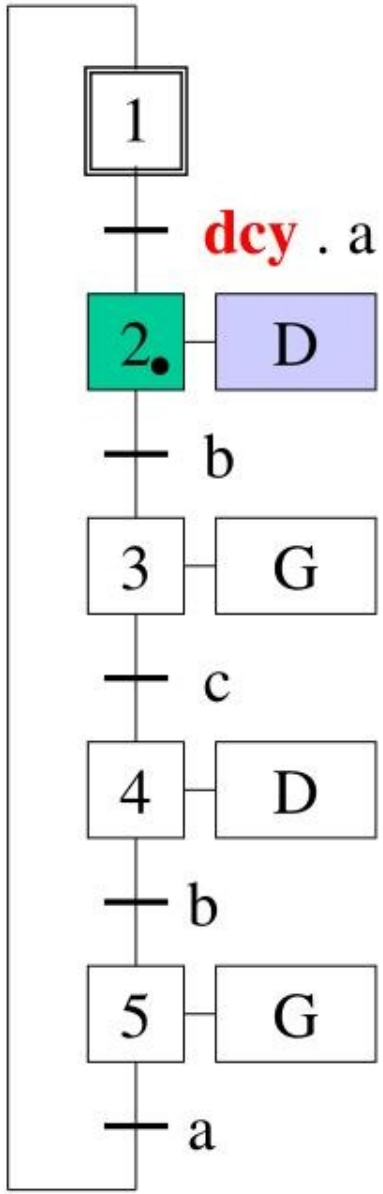
Franchissement de la transition

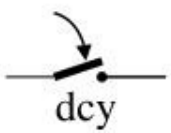
- Désactivation de l'étape 1
- Activation de l'étape 2

Ordre de l 'action associée à l'étape 2

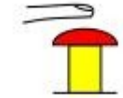
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GRAFCET
à séquence unique

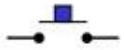




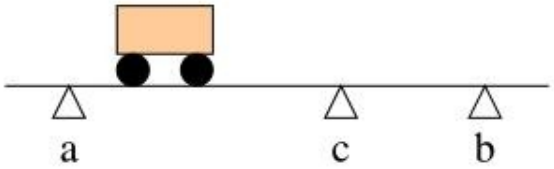
G D



AU « dur »



AU « doux »

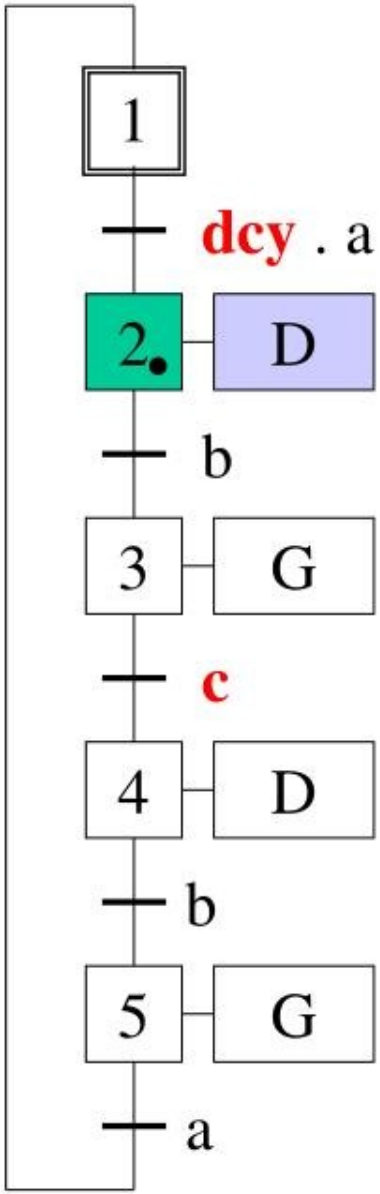


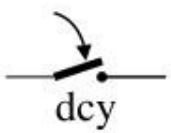
Étape 2 active

• Déplacement du chariot à droite

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GRAFCET
à séquence unique





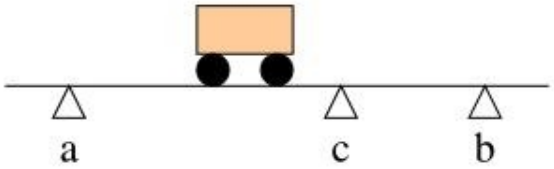




AU « dur »



AU « doux »



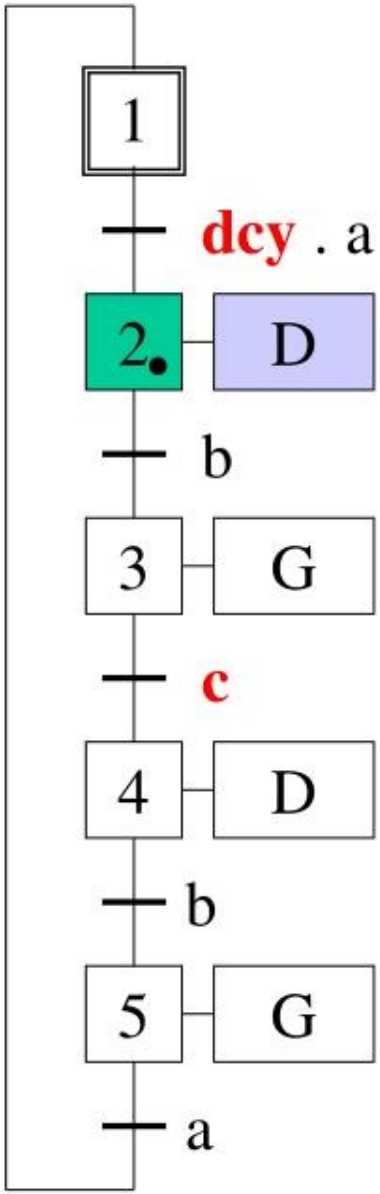
Remarque :

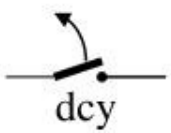
L'opérateur peut décider ici d'enlever la commande départ cycle « dcy » pour que l'automatisme ne fait qu'**UN** cycle



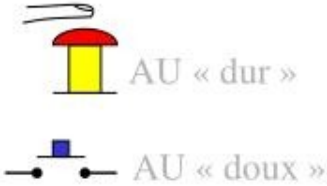
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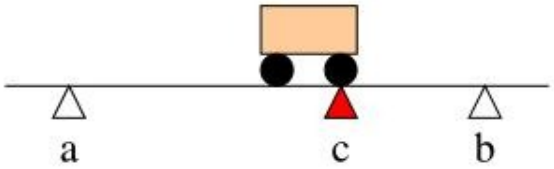
GRAFCET
à séquence unique











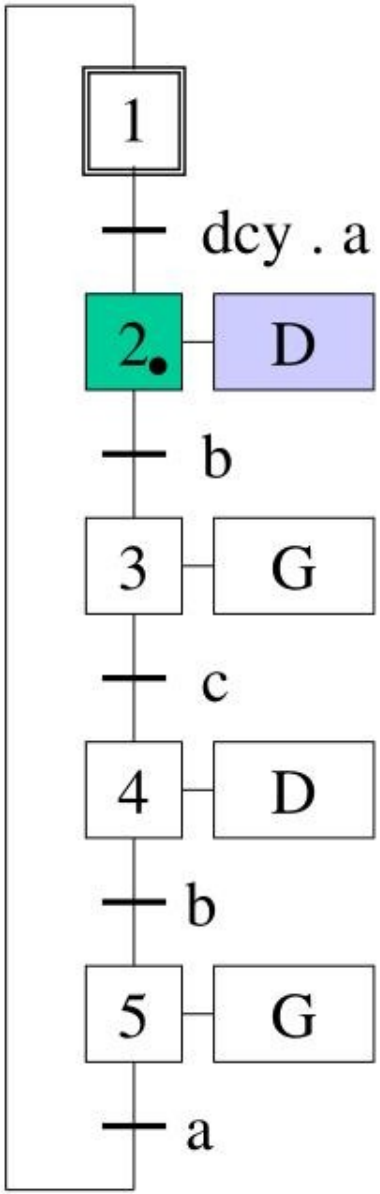
Étape 2 active

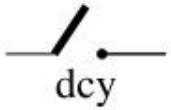
• Le chariot est devant le capteur c

Aucun effet dans le déroulement du Grafcet à ce moment précis

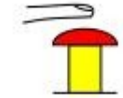
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GRAFCET
à séquence unique

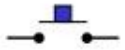




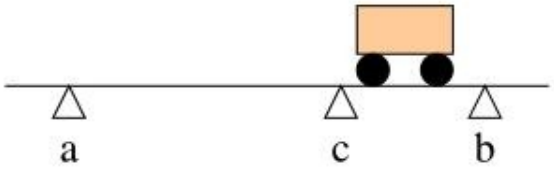
G D



AU « dur »



AU « doux »



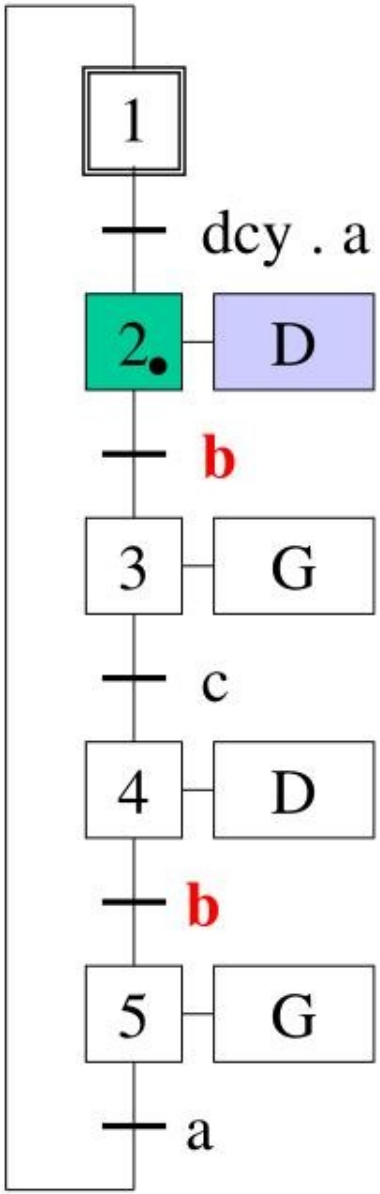
Étape 2 active

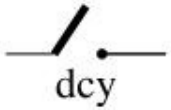


• Le chariot continue sa course jusqu'au capteur b

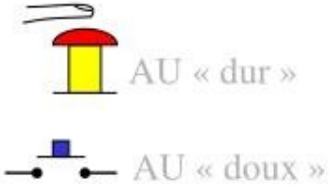
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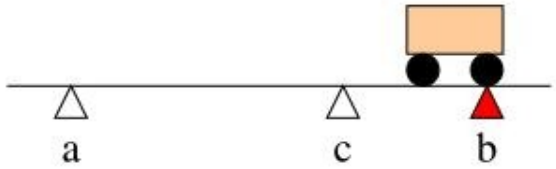
GRAFCET
à séquence unique









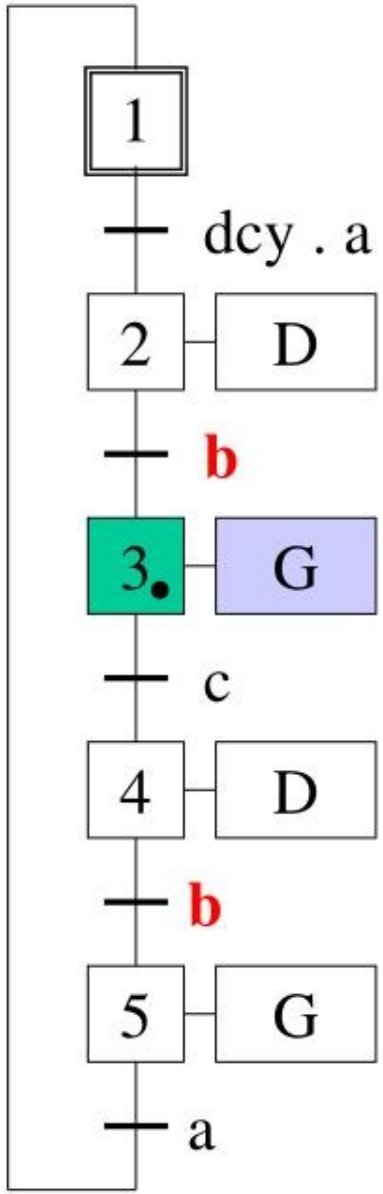


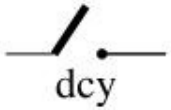
Réceptivité « b » est VRAI & la transition 2 - 3 est validée

La transition est franchissable

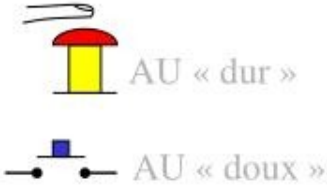
WWW.DZPEN.COM | قلم الجزائر

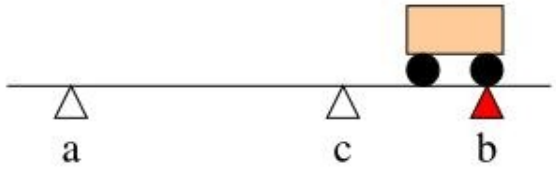
GRAFCET
à séquence unique











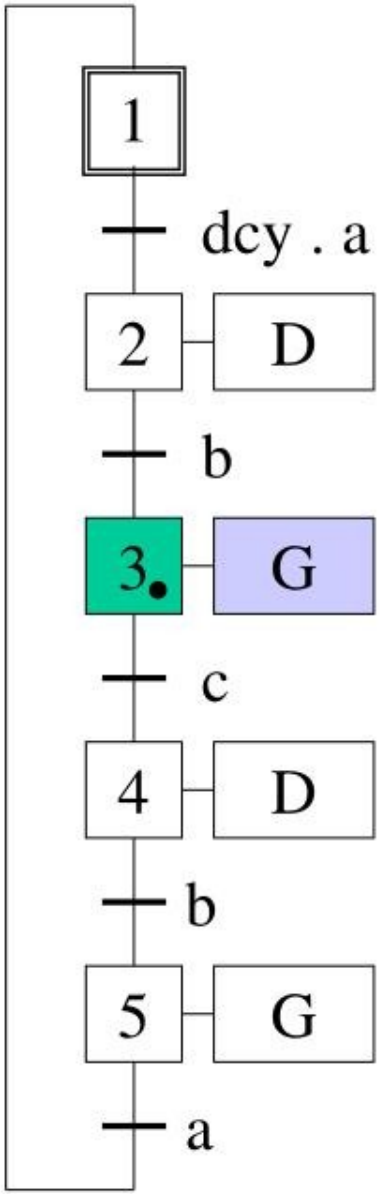
Franchissement de la transition

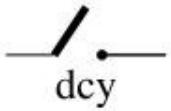


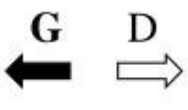
- Désactivation de l'étape 2
- Activation de l'étape 3

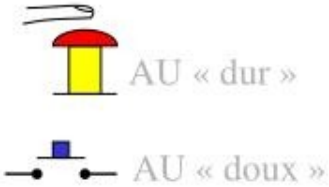
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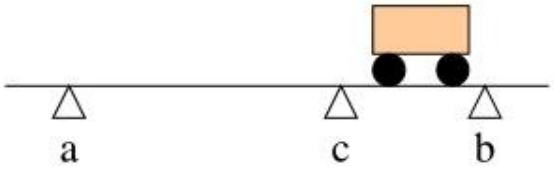
GRAFCET
à séquence unique









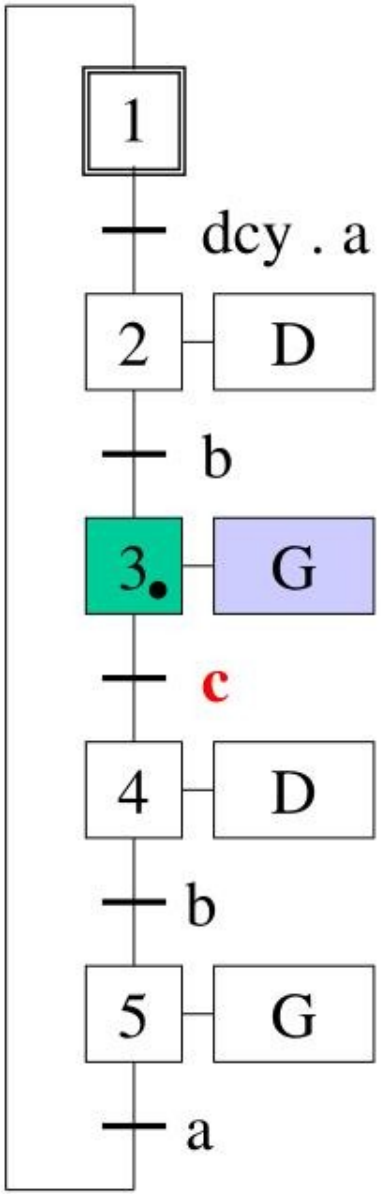


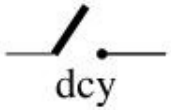
Étape 3 active

Le chariot se déplace à gauche

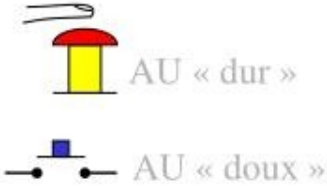
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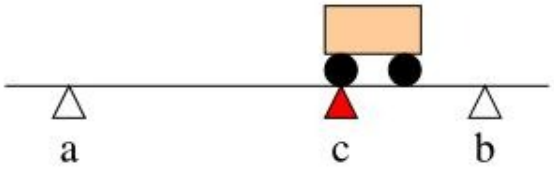
GRAFCET
à séquence unique











La réceptivité « c » est VRAIE & la transition 3-4 est validée

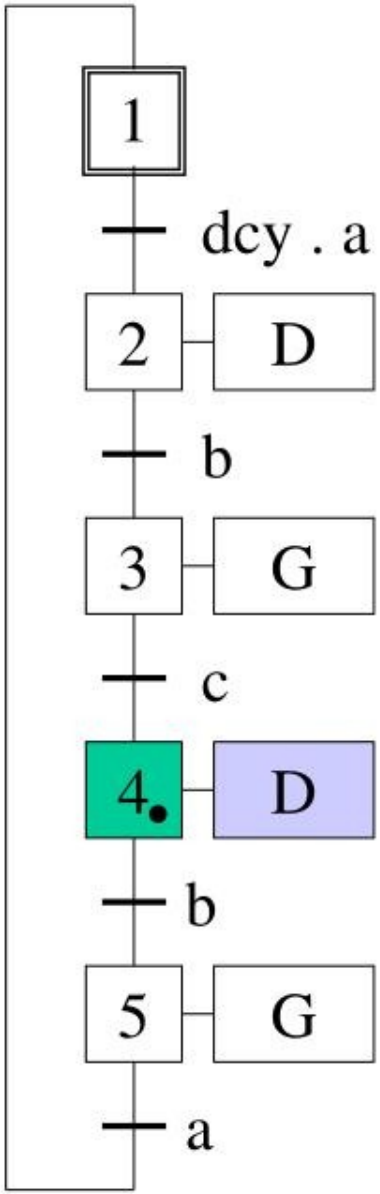
Franchissement de la transition

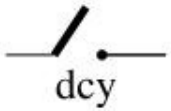
Désactivation de l 'étape 3

Activation de l 'étape 4

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GRAFCET
à séquence unique

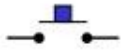




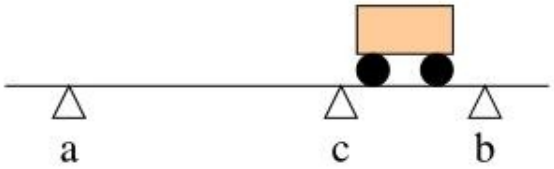




AU « dur »



AU « doux »

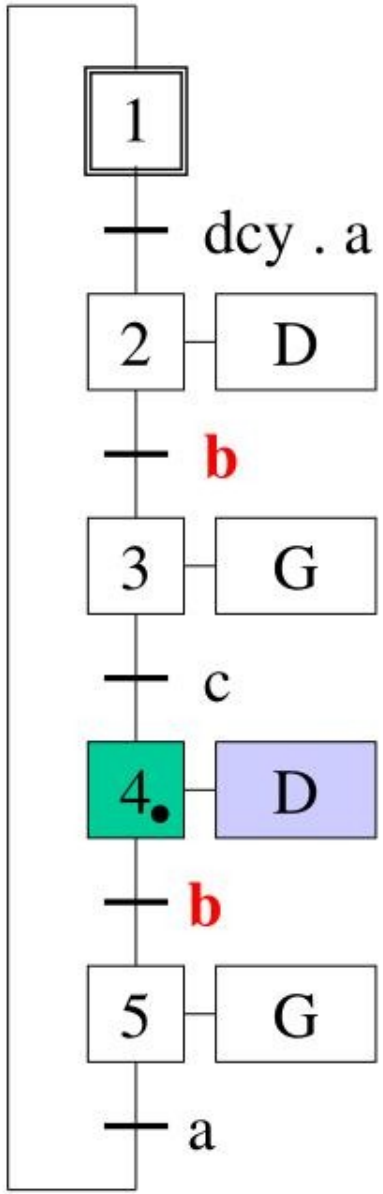


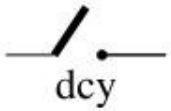
Étape 4 active

Déplacement à droite du chariot

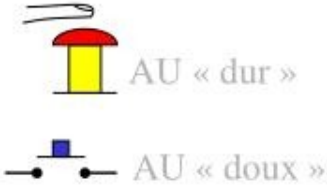
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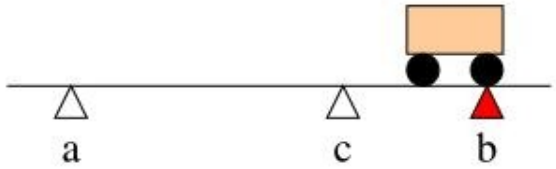
GRAFCET
à séquence unique











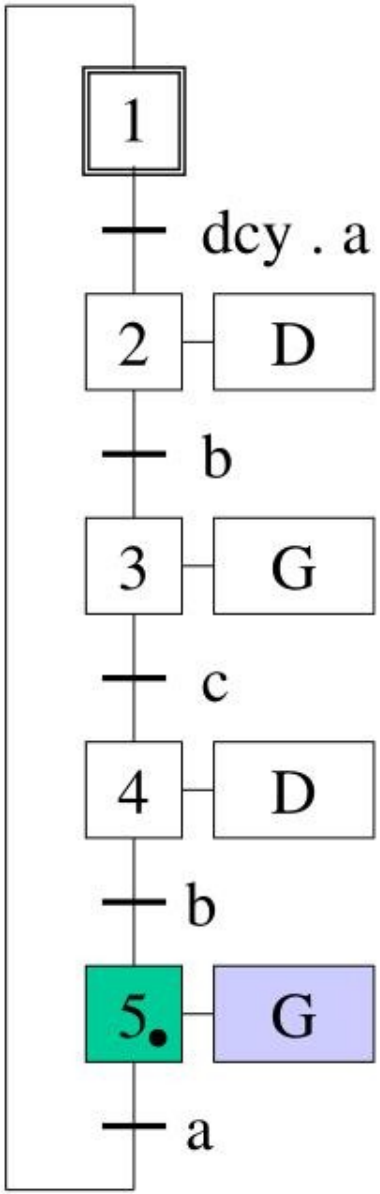
Réceptivité « b » est VRAI & la transition 4 - 5 est validée

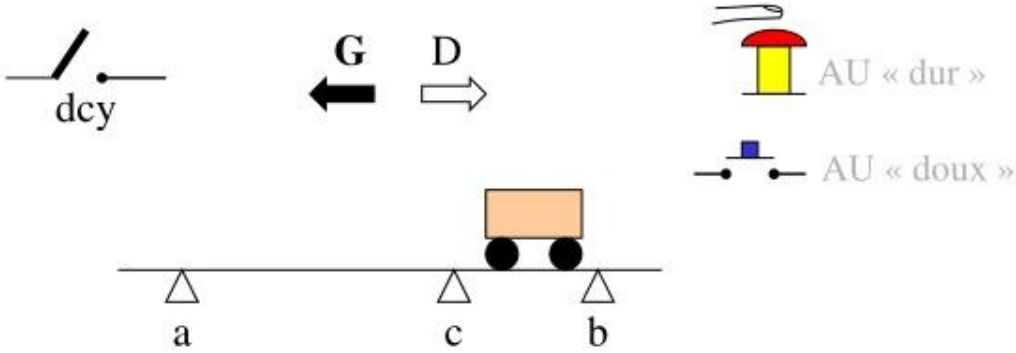
La transition est franchissable

- Désactivation de l'étape 4
- Activation de l'étape 5

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GRAFCET
à séquence unique



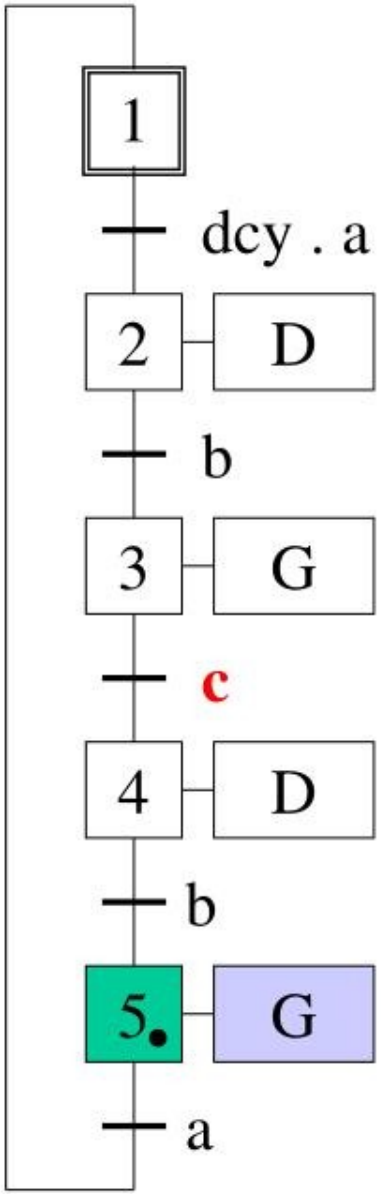


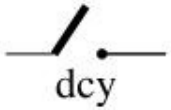
Étape 5 active

Le chariot se déplace à gauche

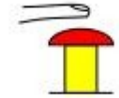
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GRAFCET
à séquence unique

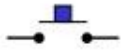




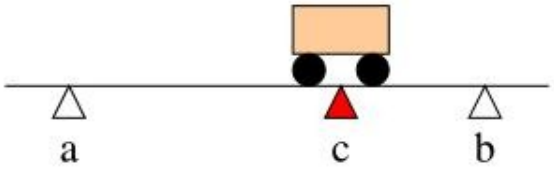




AU « dur »



AU « doux »



Étape 5 active



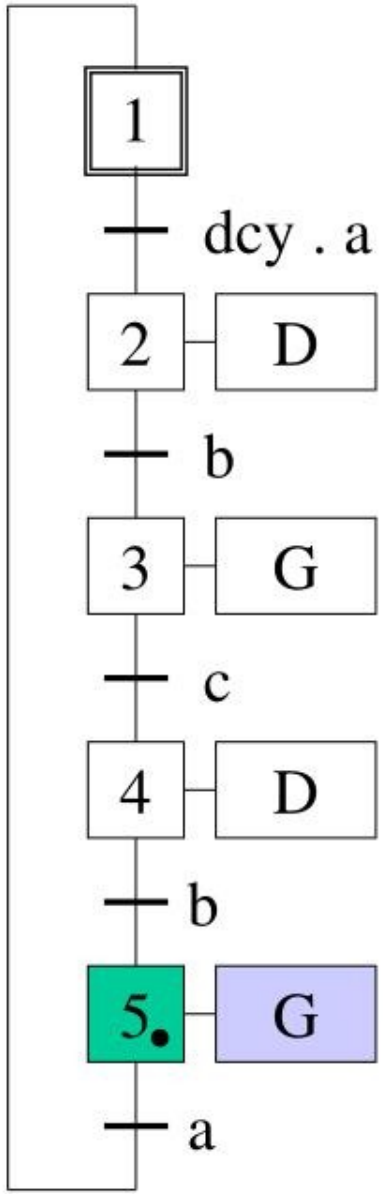
Le chariot se déplace à gauche et passe devant le capteur c

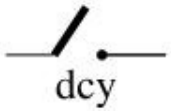


Aucun effet dans le déroulement du Grafcet à ce moment précis

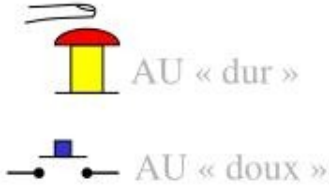
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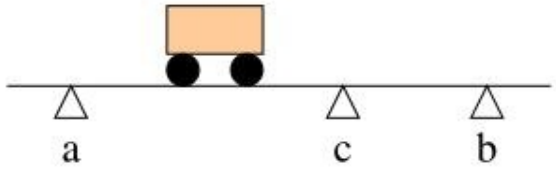
GRAFCET
à séquence unique









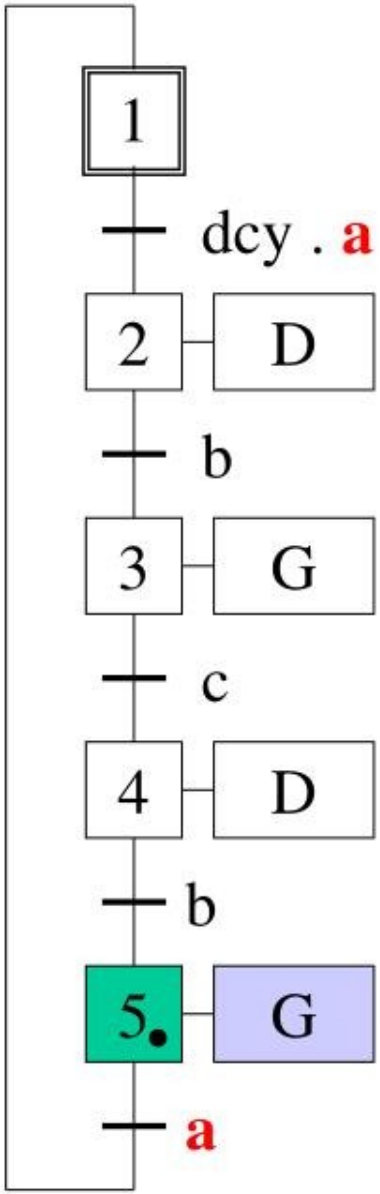


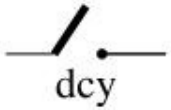
Étape 5 active

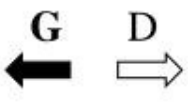
Le chariot se déplace à gauche

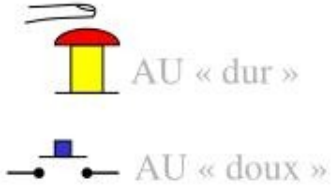
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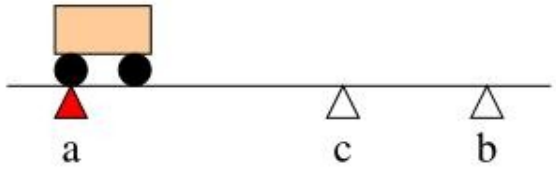
GRAFCET
à séquence unique











Réceptivité « a » VRAIE & la transition 5 -1 est validée

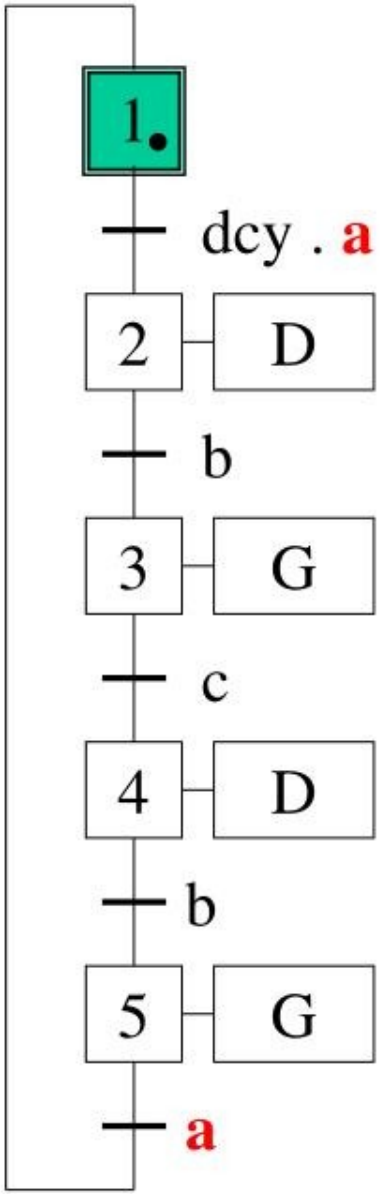
La transition est franchissable

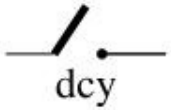
Désactivation de l'étape 5

Activation de l'étape 1

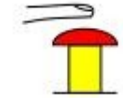
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GRAFCET
à séquence unique

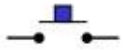




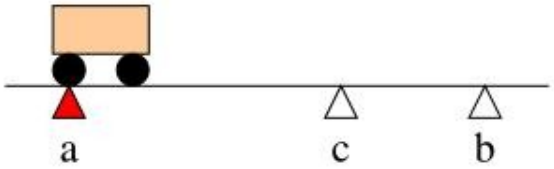
G D



AU « dur »



AU « doux »



Étape 1 active

Pour lancer un nouveau cycle, il faut que l 'opérateur appui sur « dcy »

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