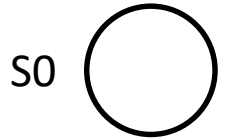
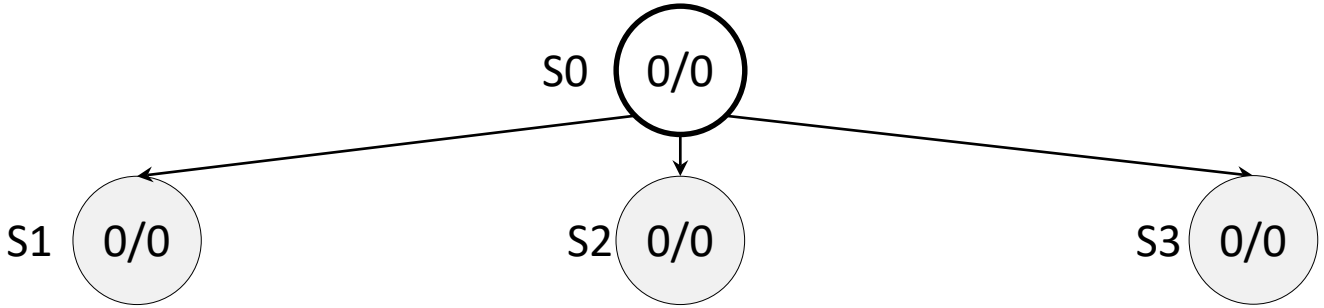
Initialisation (1)

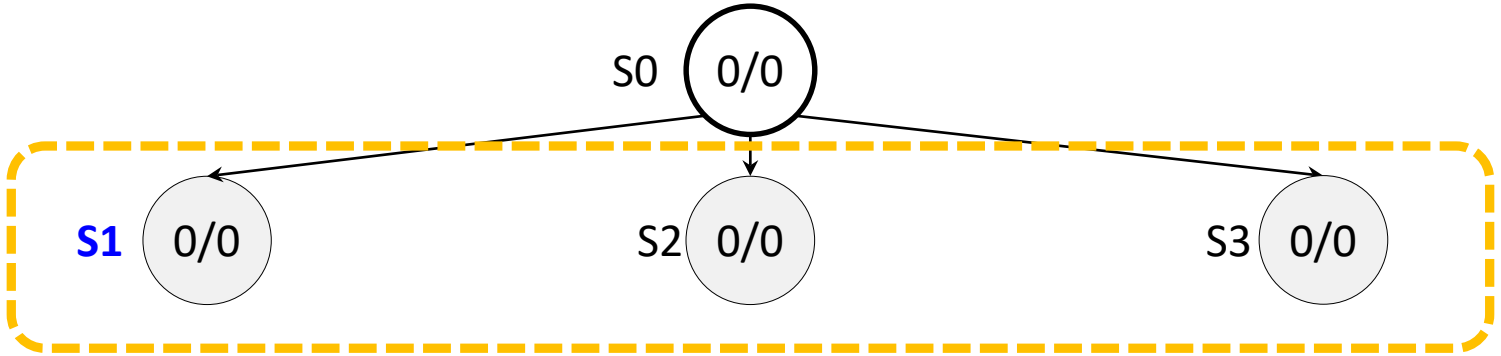


Déroulement de MCTS sur 1 exemple

Initialisation (2)



Sélection



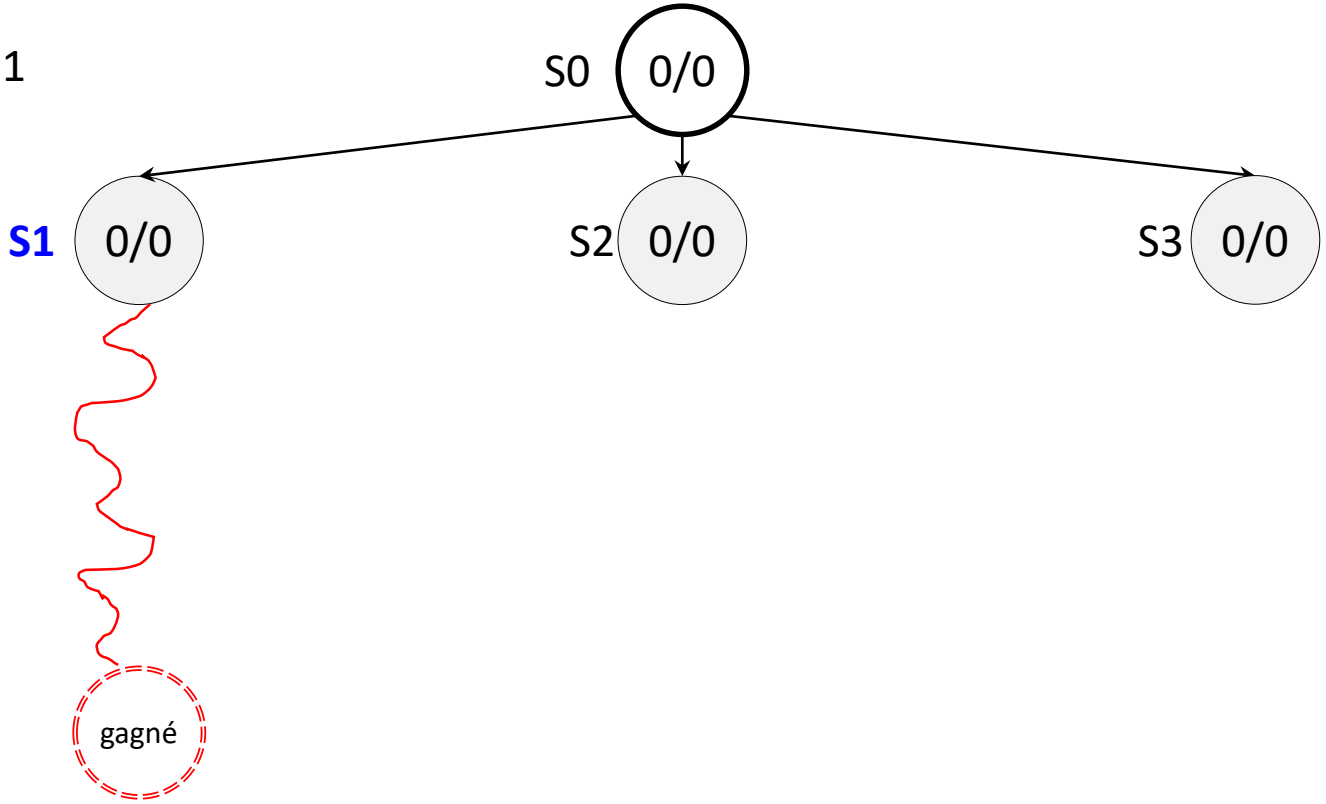
UCB1(S1)=∞

UCB1(S2)=∞

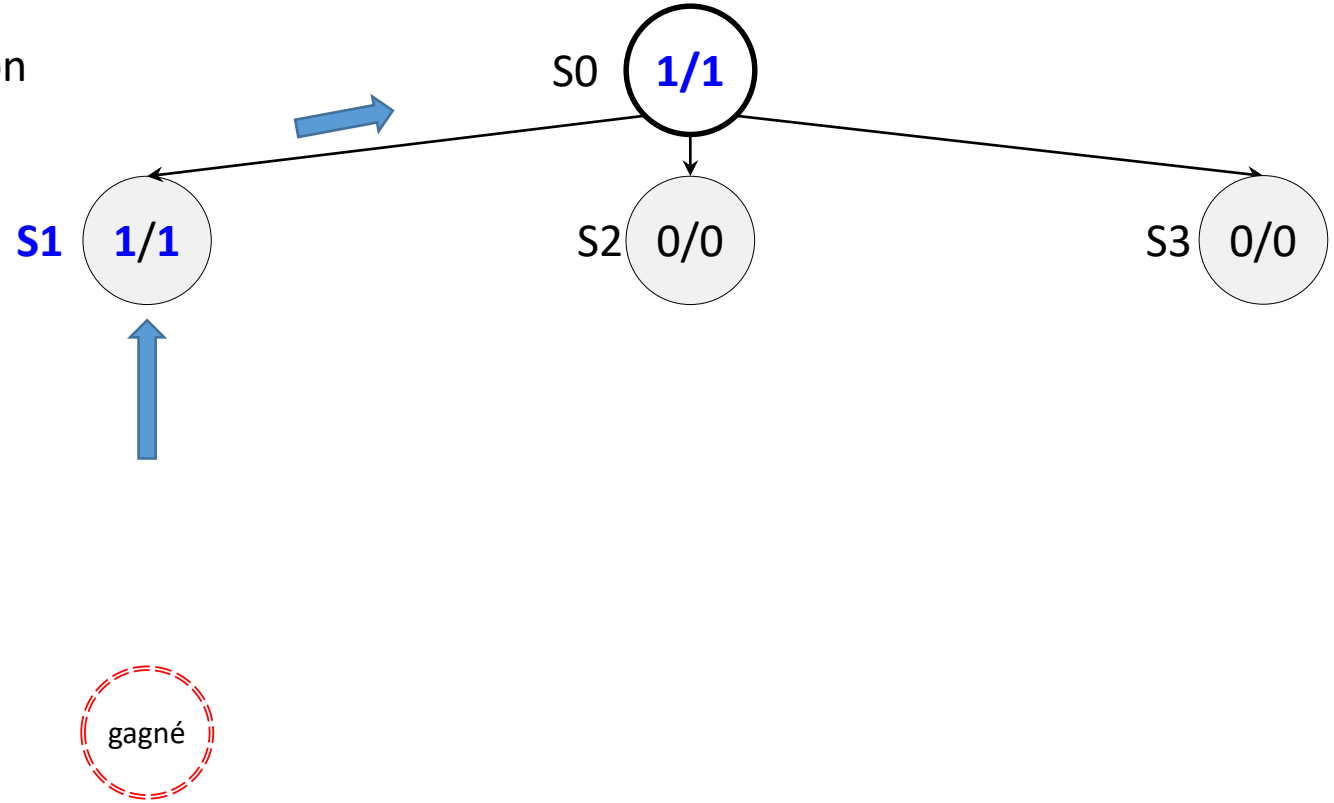
UCB1(S3)=∞

→ Choix dans l'ordre lexico-gr : S1

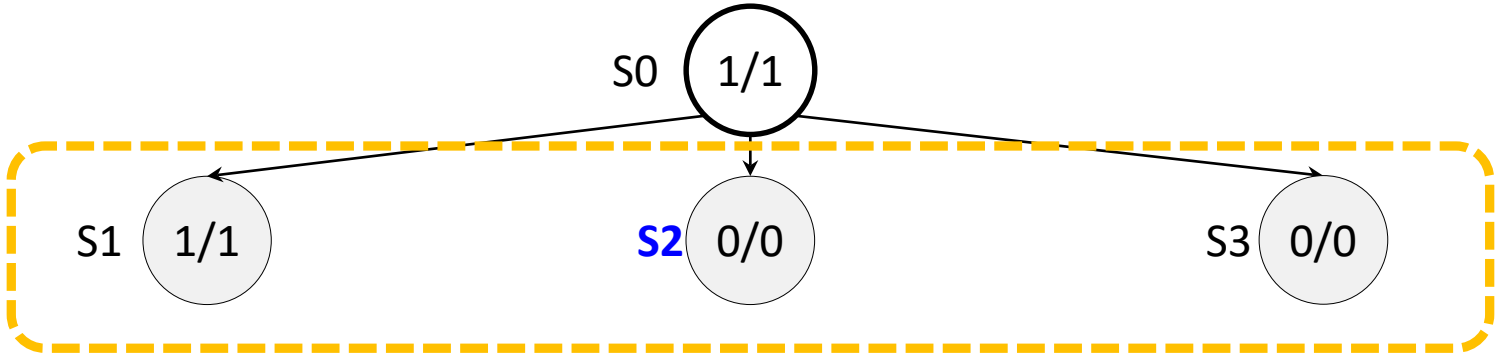
Simulation sous S1



Rétro-propagation



Sélection



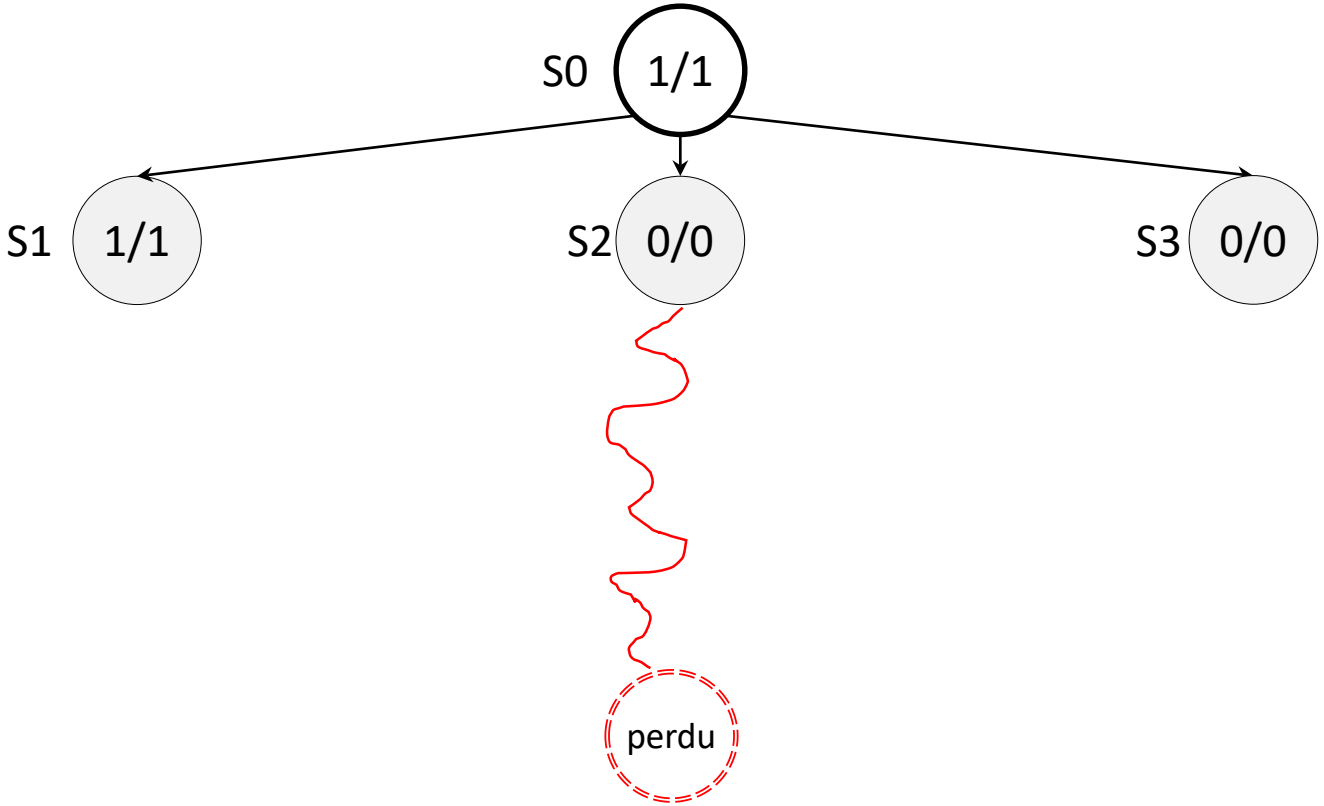
UCB1(S1)=3,82

UCB1(S2)=∞

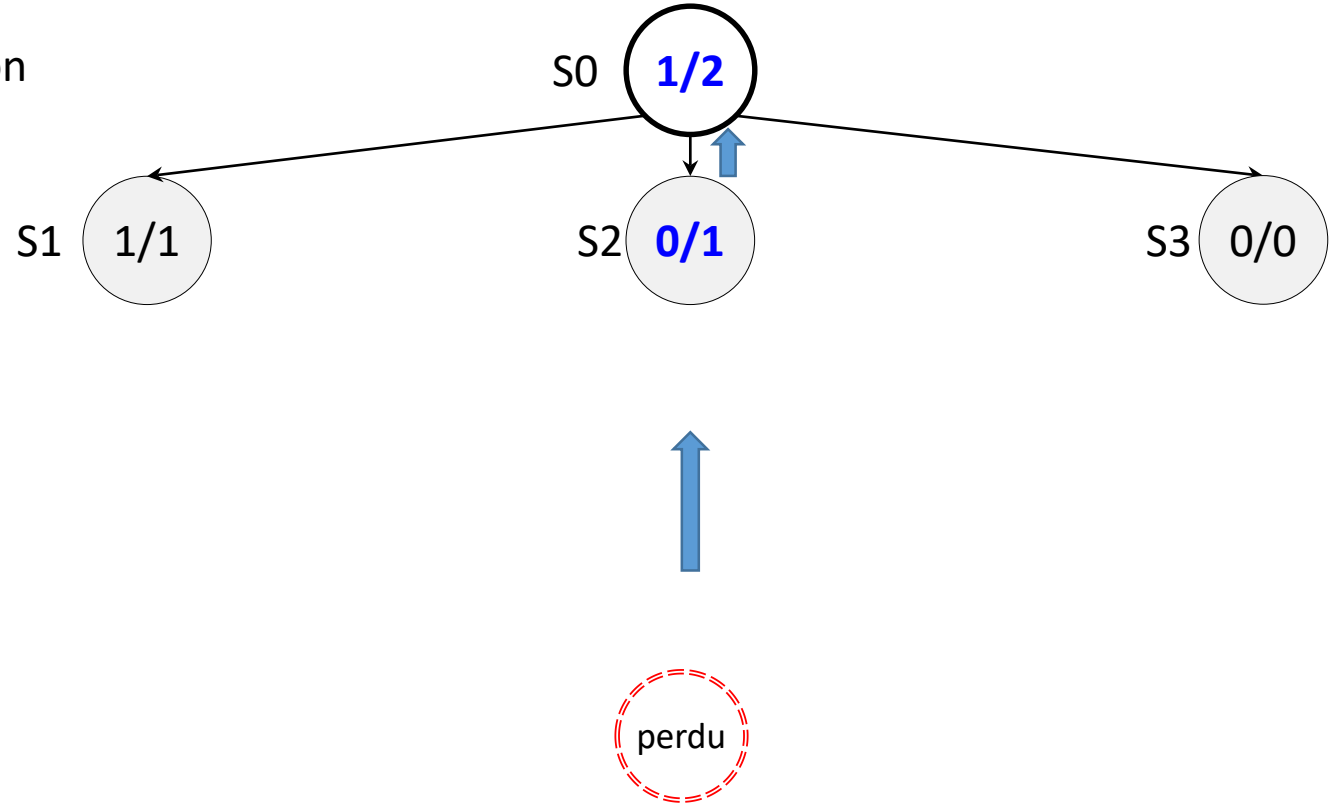
UCB1(S3)=∞

→ Choix dans l'ordre lexico-gr : S2

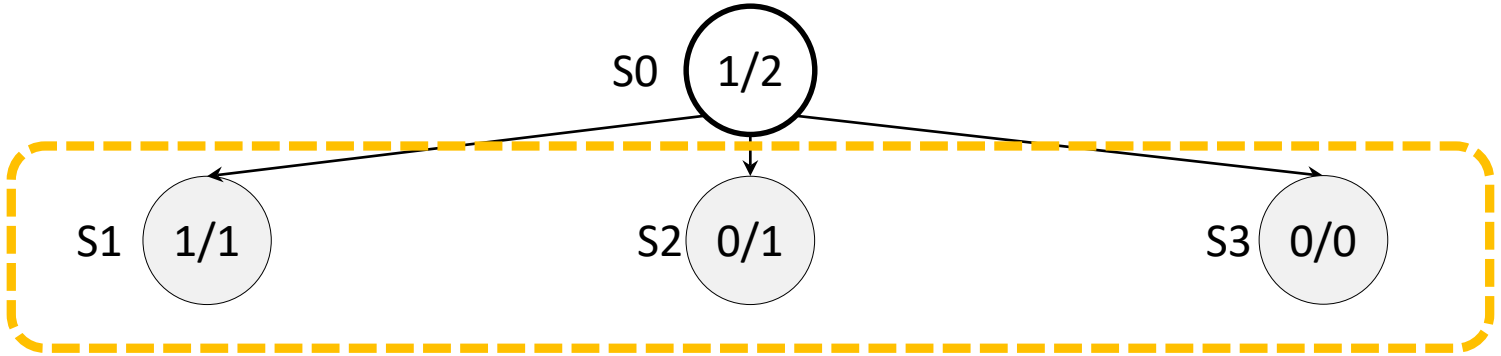
Simulation



Rétro-propagation



Sélection

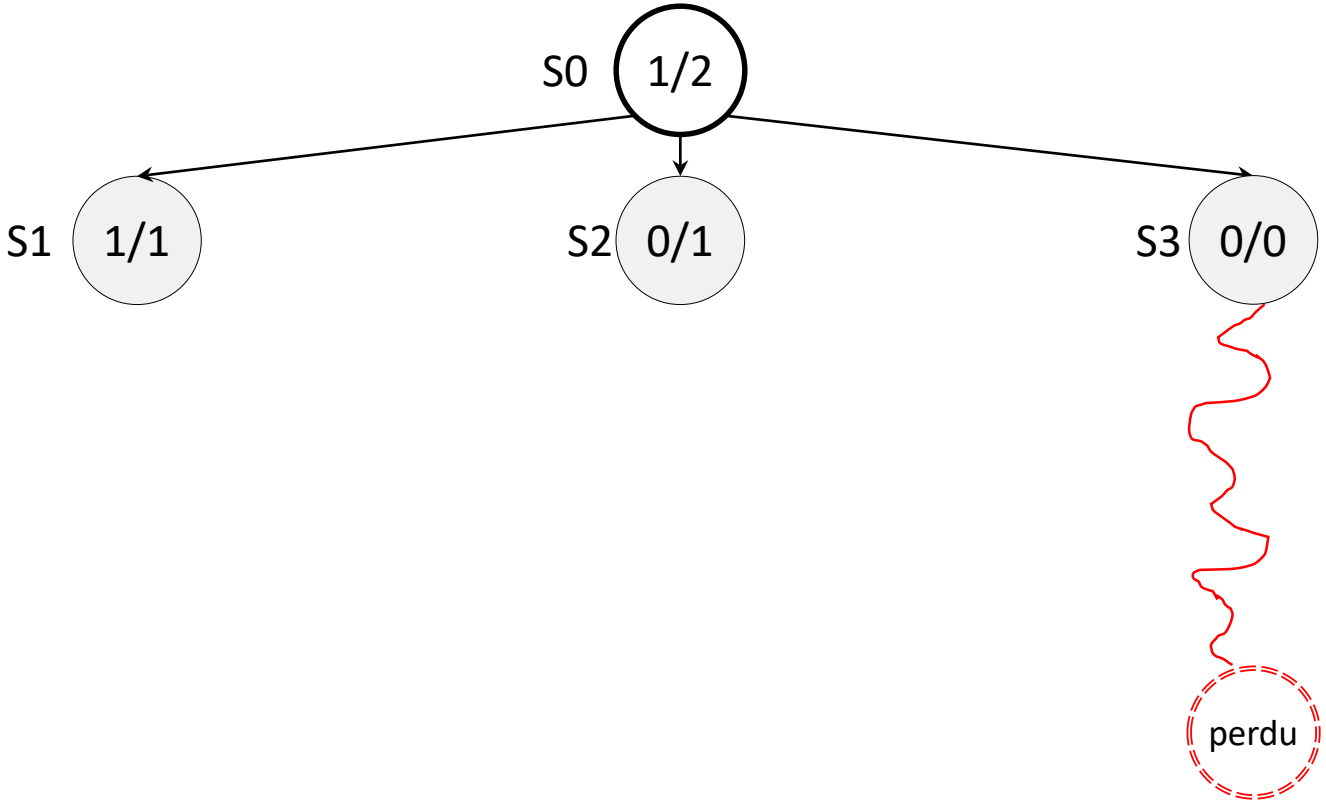


UCB1(S1)=3

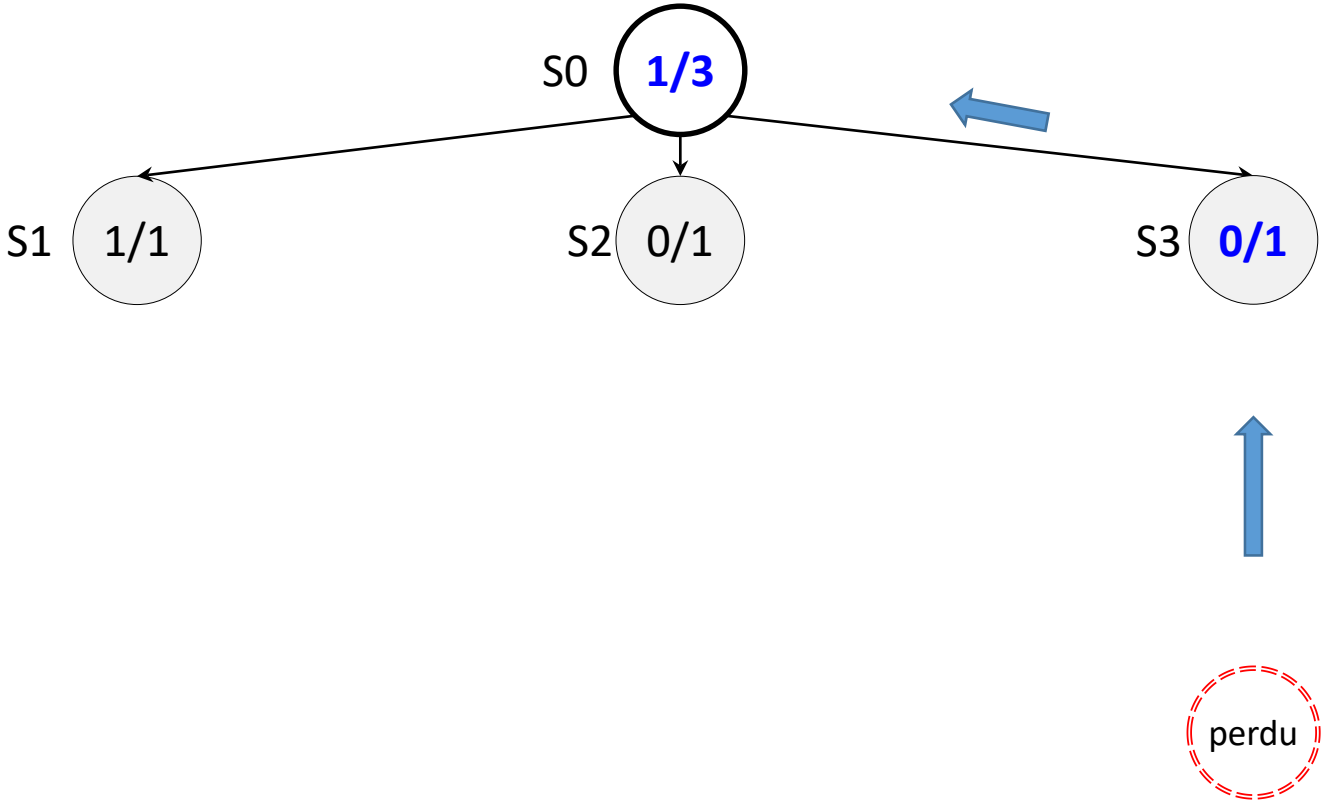
UCB1(S2)=2

→ UCB1(S3)=∞

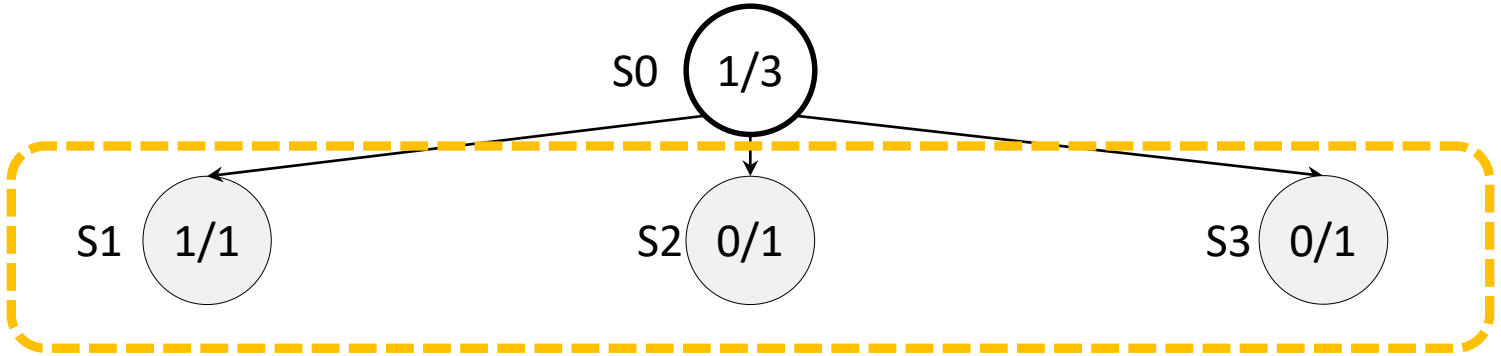
Simulation



Rétropropagation



Sélection

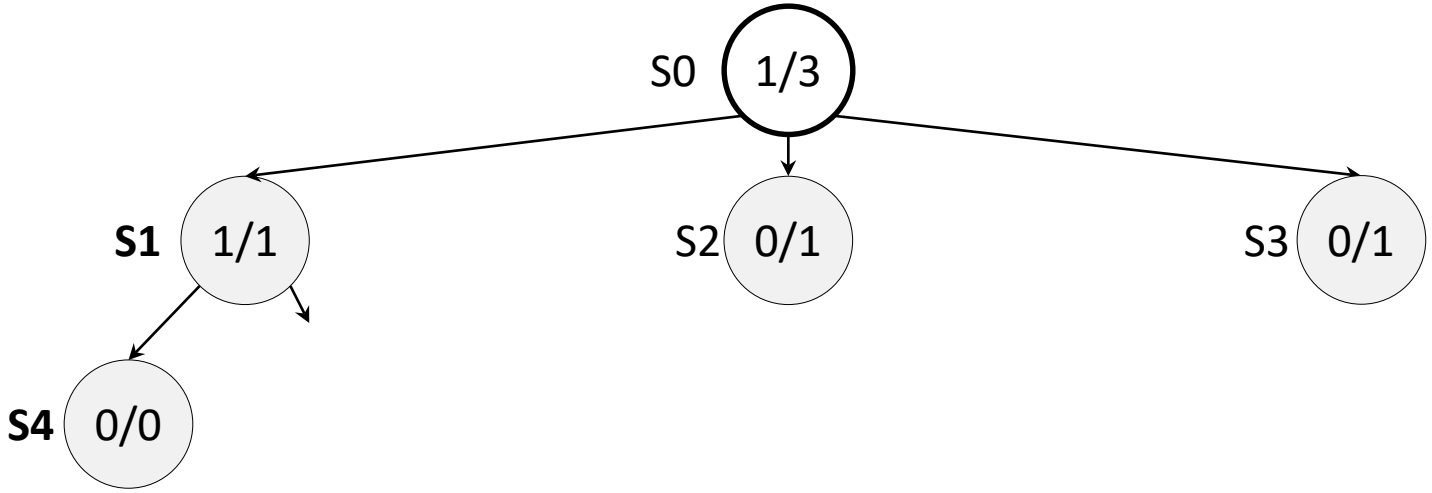


→ UCB1(S1)=3,449

UCB1(S2)=2,449

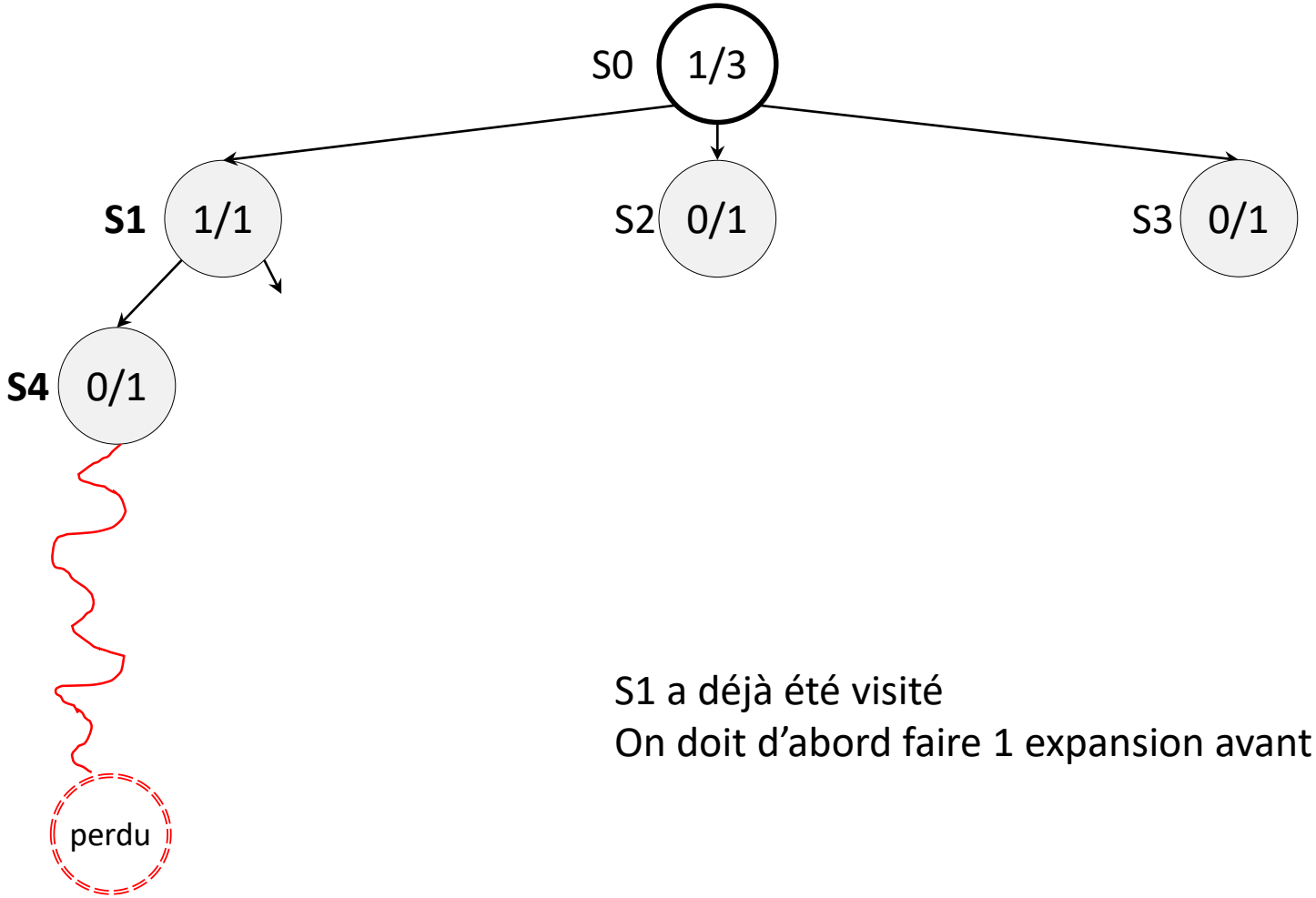
UCB1(S3)=2,449

Expansion



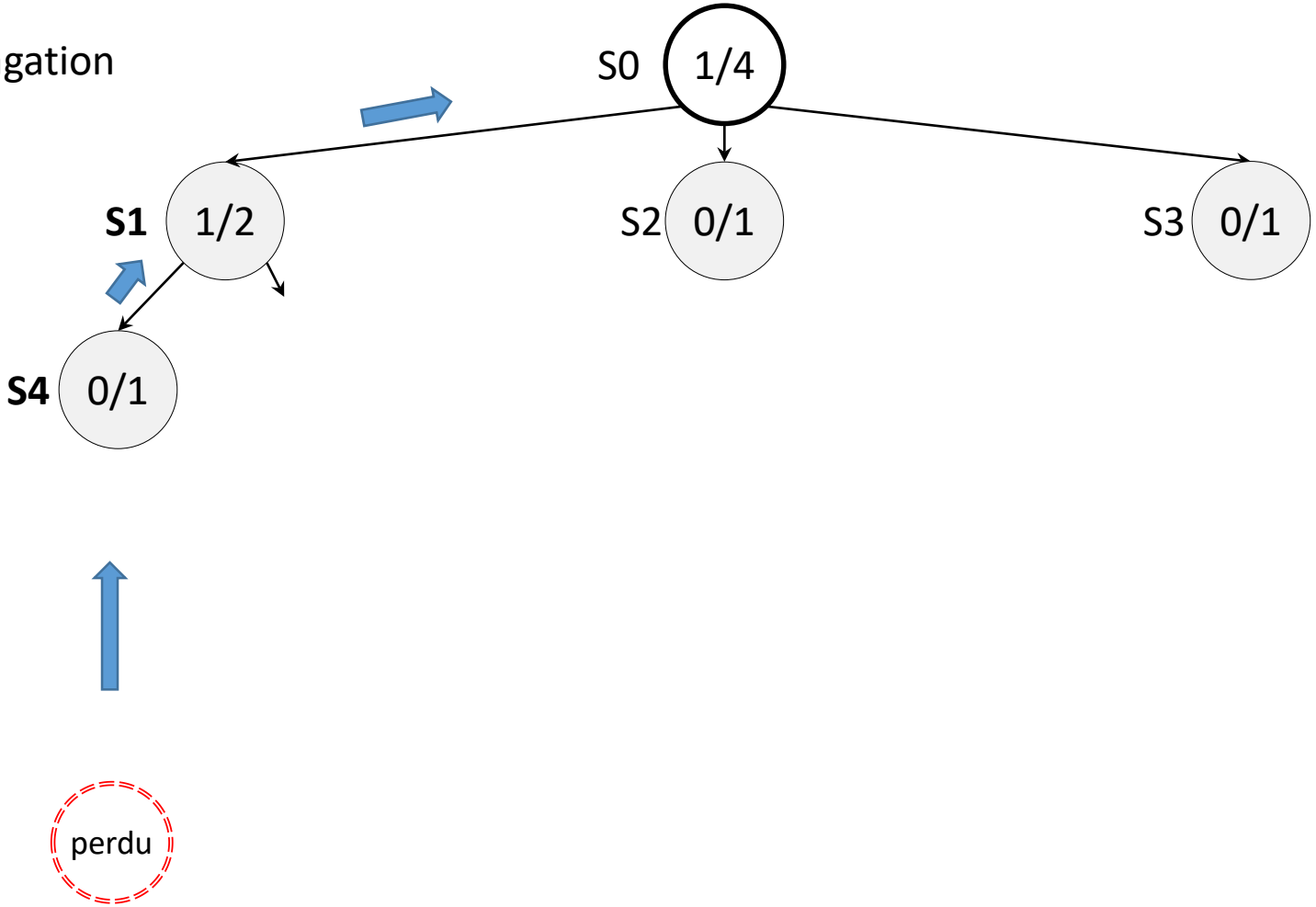
S1 a déjà été visité
On doit d'abord faire 1 expansion avant de simuler

Simulation

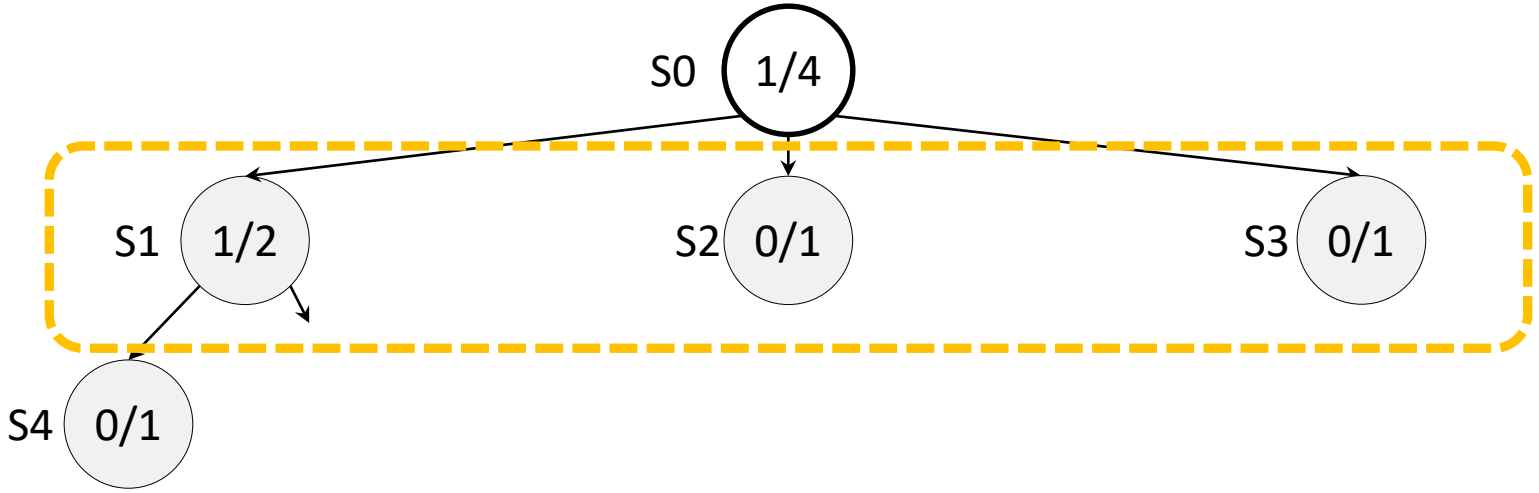


S1 a déjà été visité
On doit d'abord faire 1 expansion avant de simuler

Rétro-propagation



Sélection

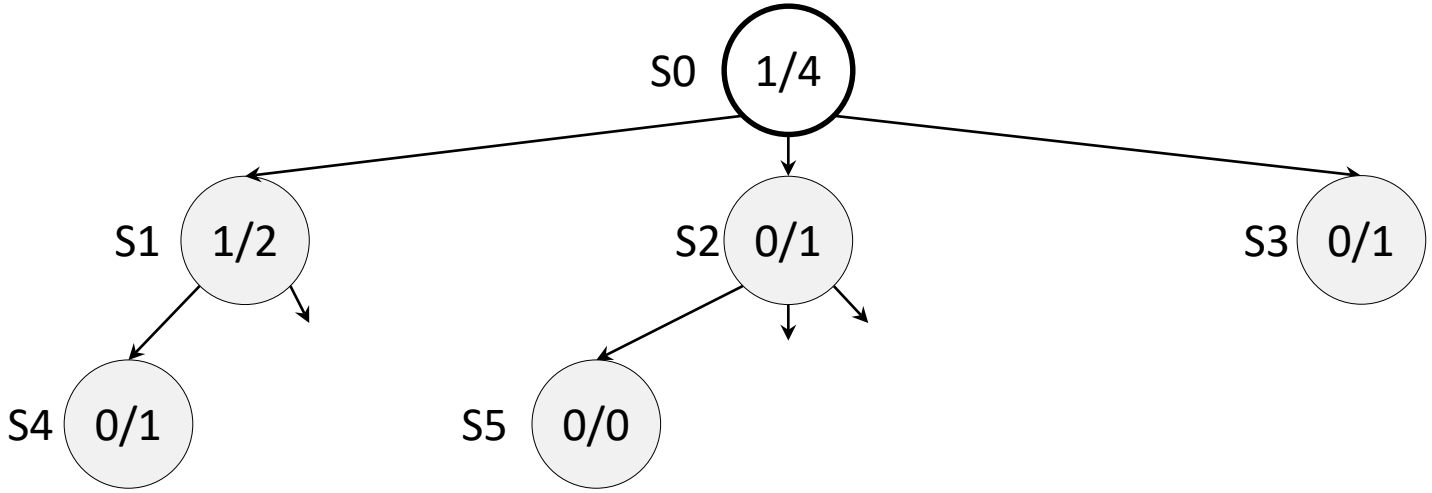


UCB1(S1)=2,5

→ UCB1(S2)=2,82

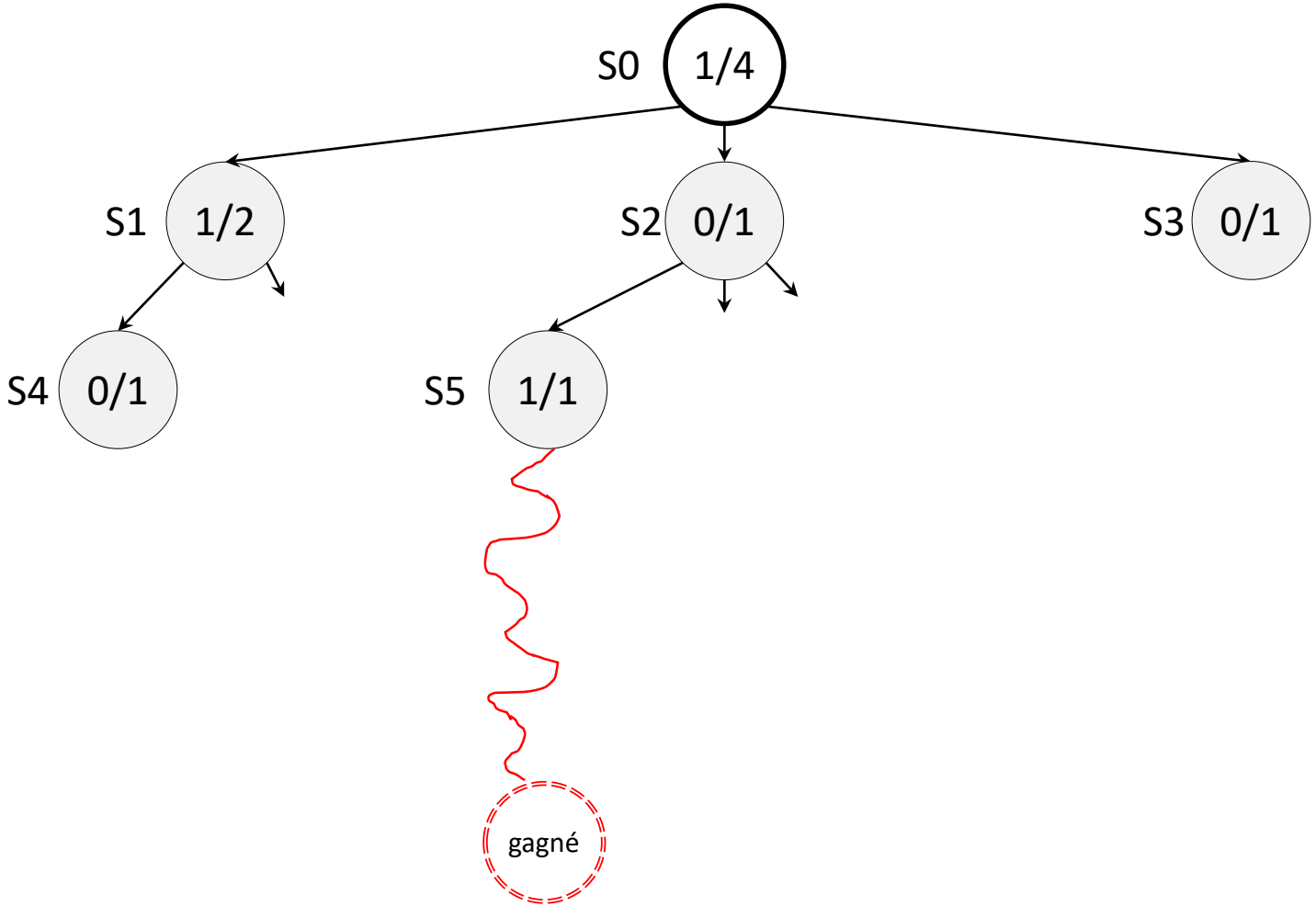
UCB1(S3)=2,82

Expansion

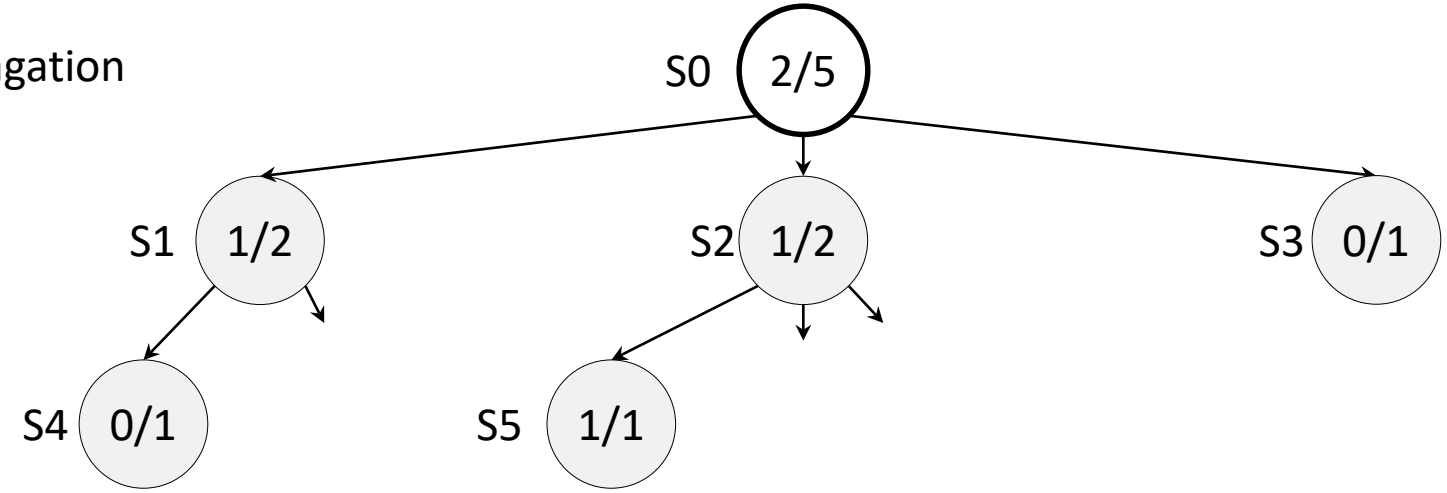


S2a déjà été visité
On doit d'abord faire 1 expansion avant de simuler

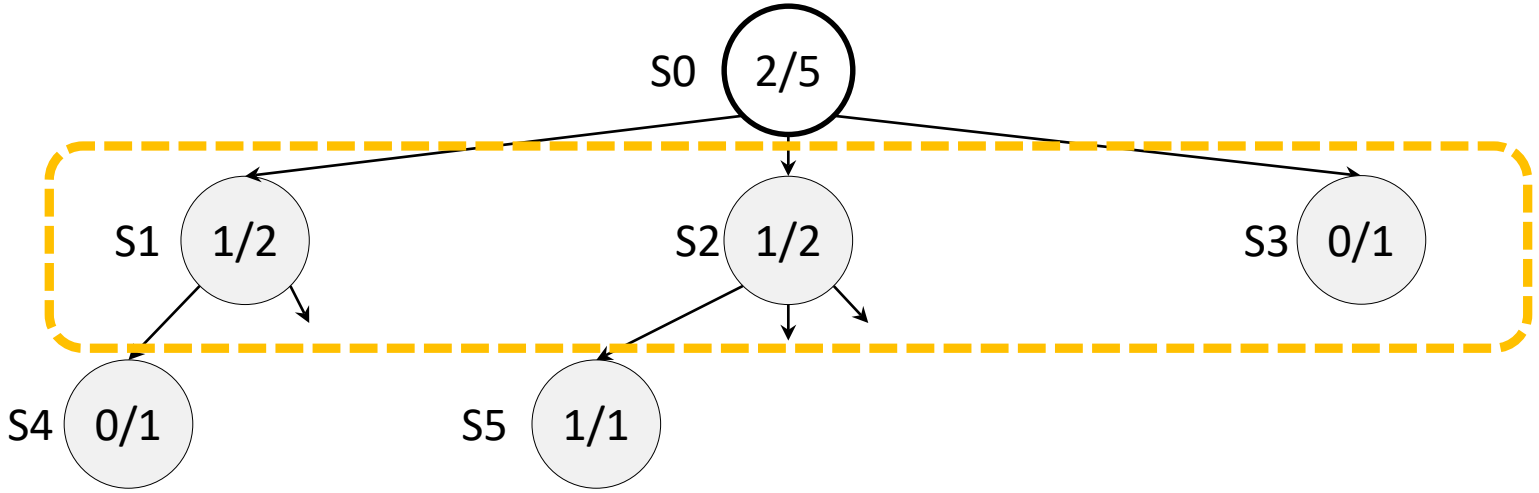
Simulation



Rétropropagation



Sélection

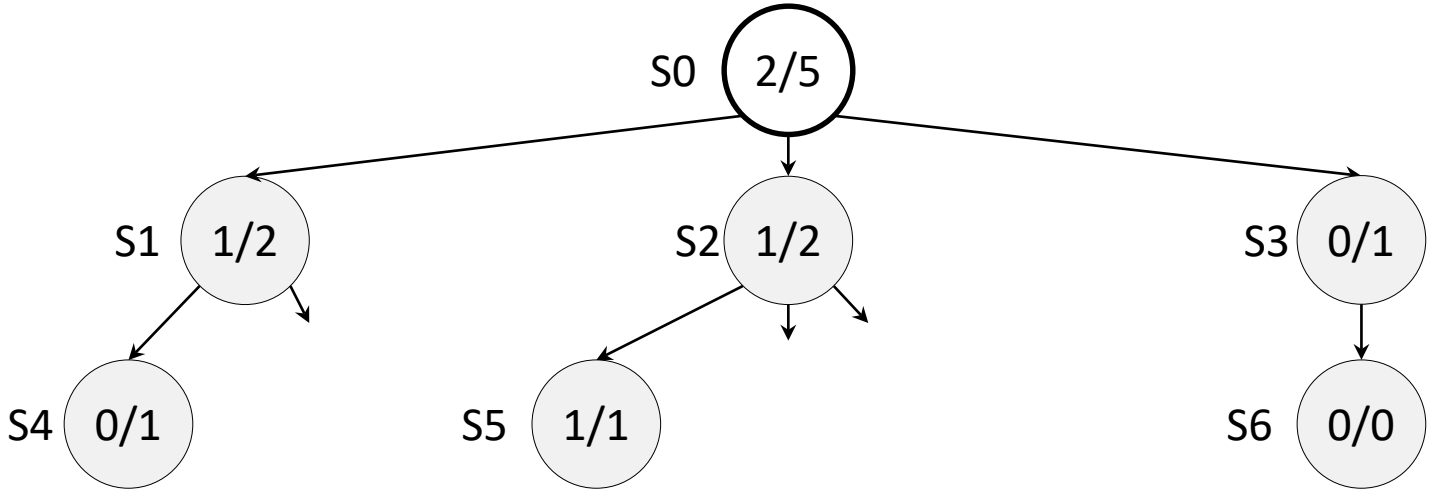


UCB1(S1)=2,73

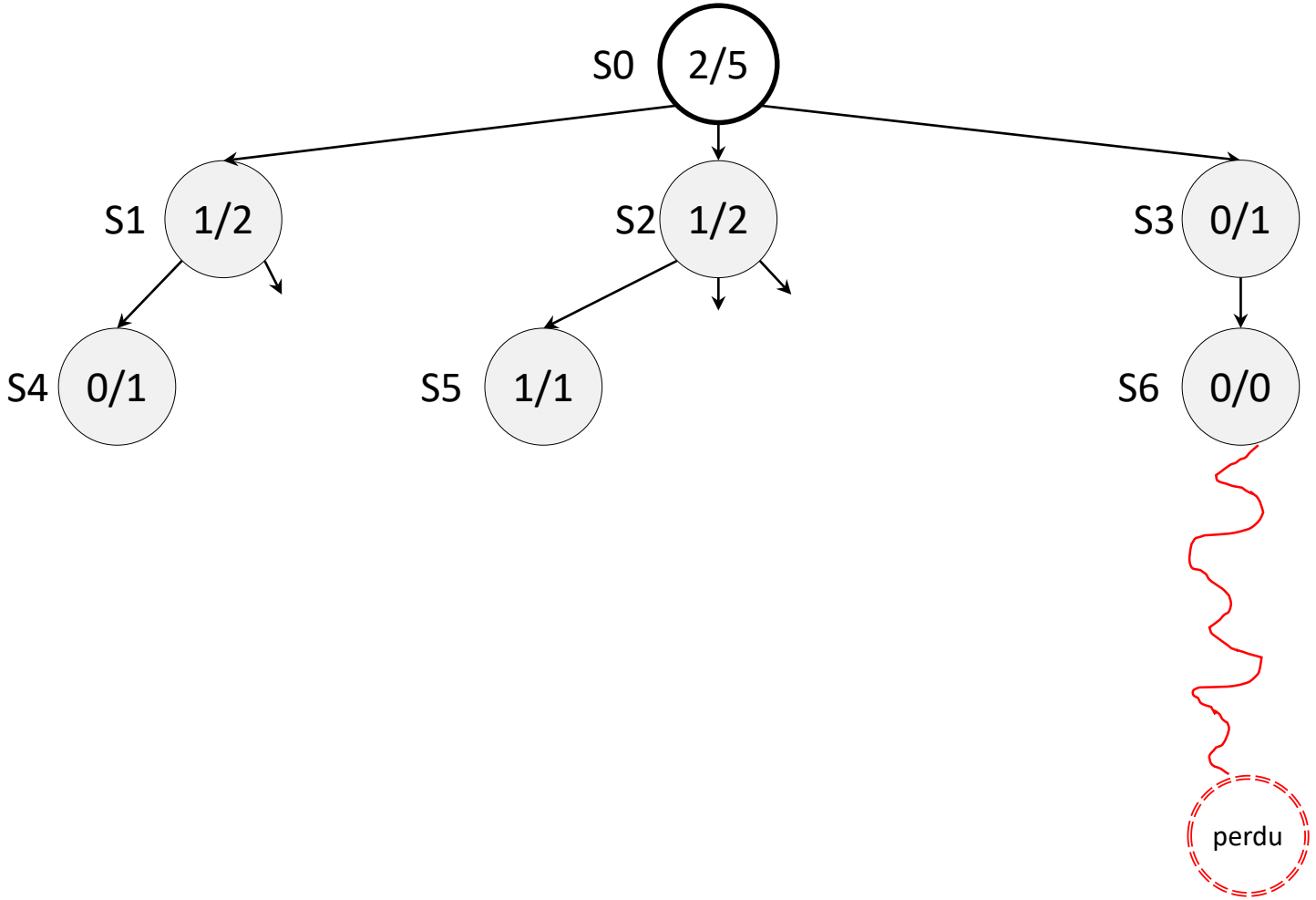
UCB1(S2)=2,73

→ UCB1(S3)=3,16

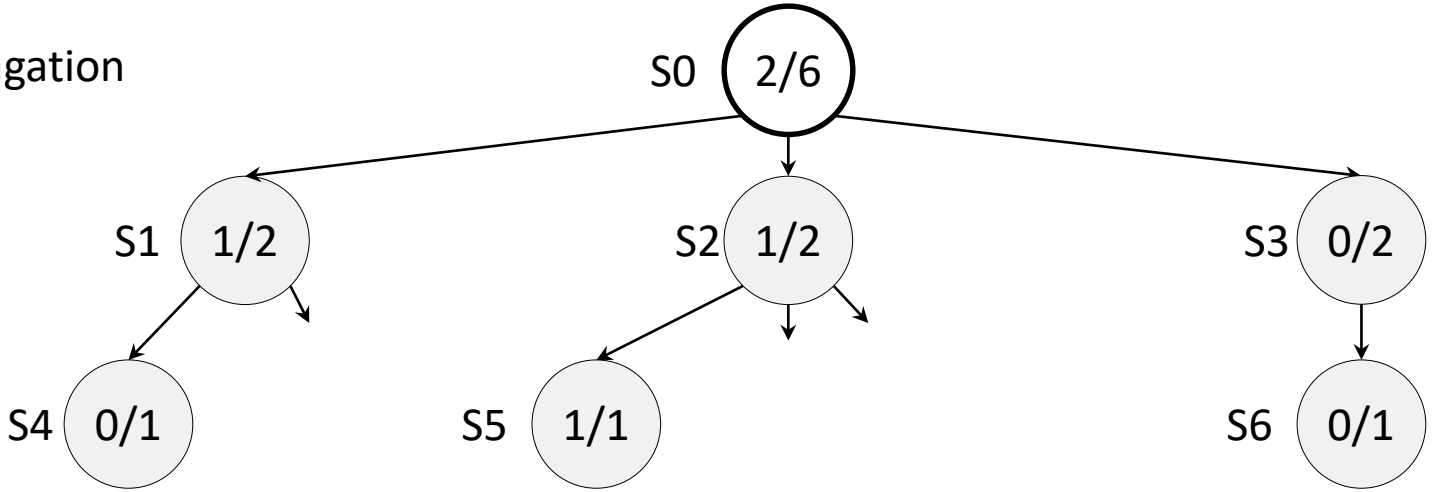
Expansion



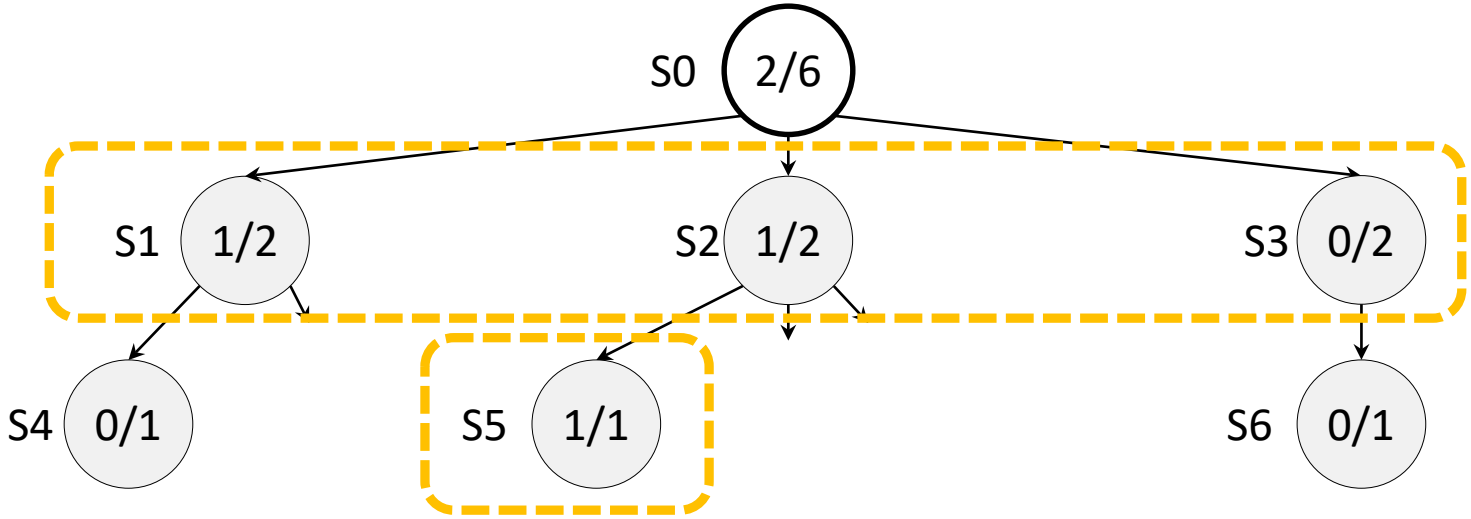
Simulation



Rétro-propagation



Sélection



UCB1(S1)=2,94

UCB1(S2)=2,94

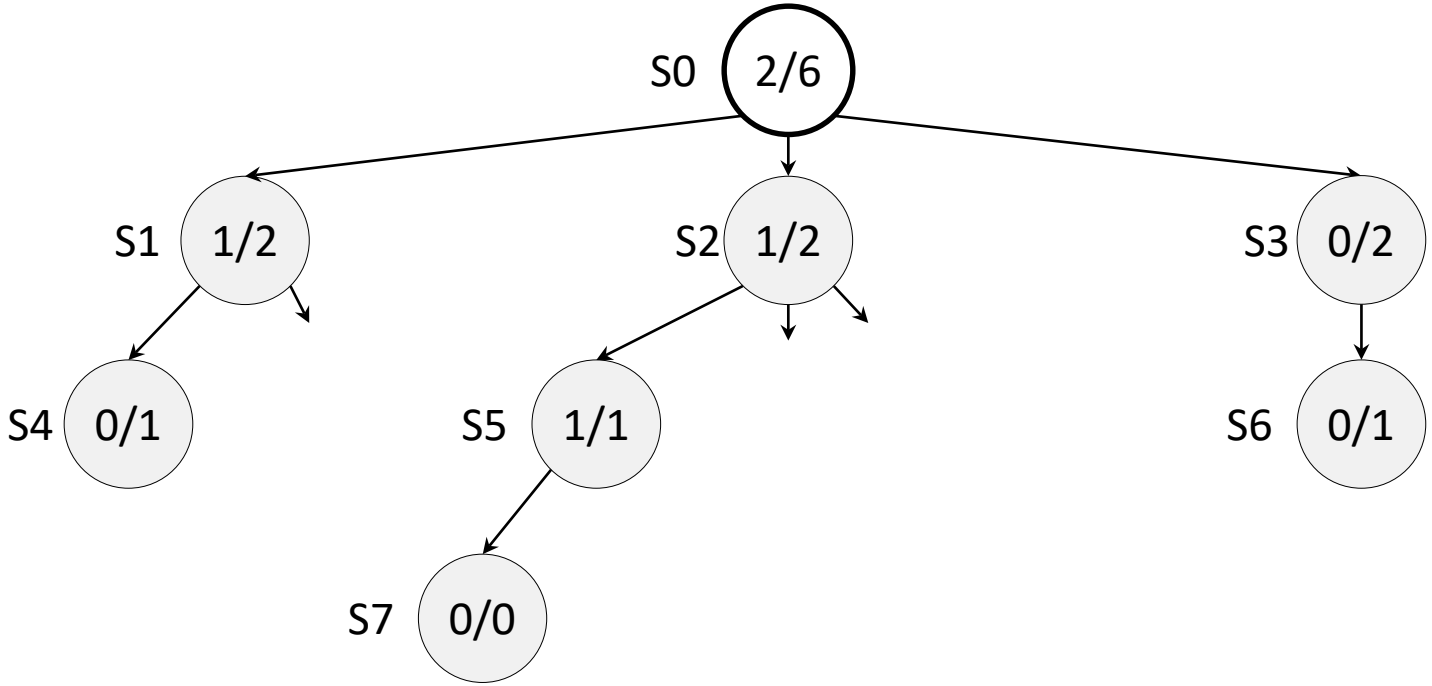
UCB1(S3)=2,49

UCB1(S4)=2

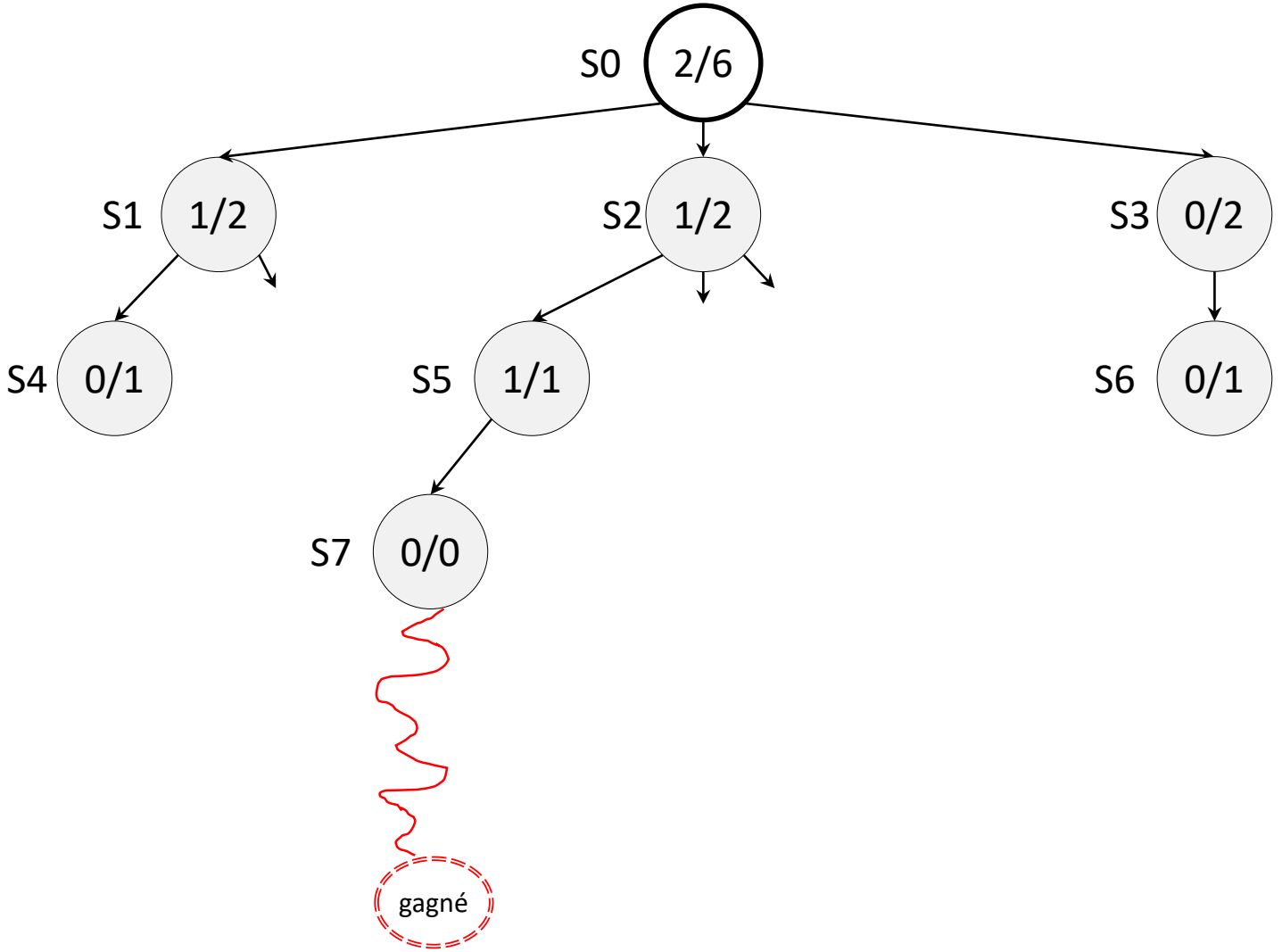
→ UCB1(S5)=3

UCB1(S6)=2

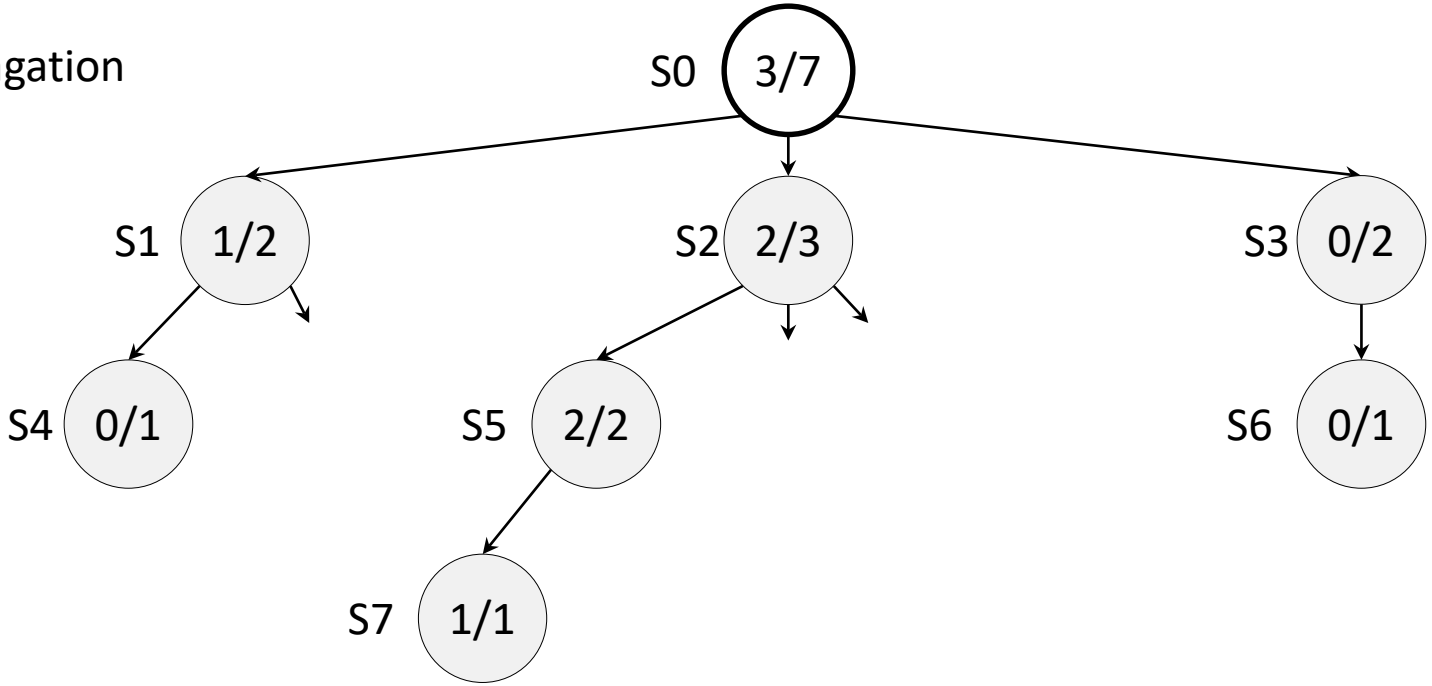
Expansion



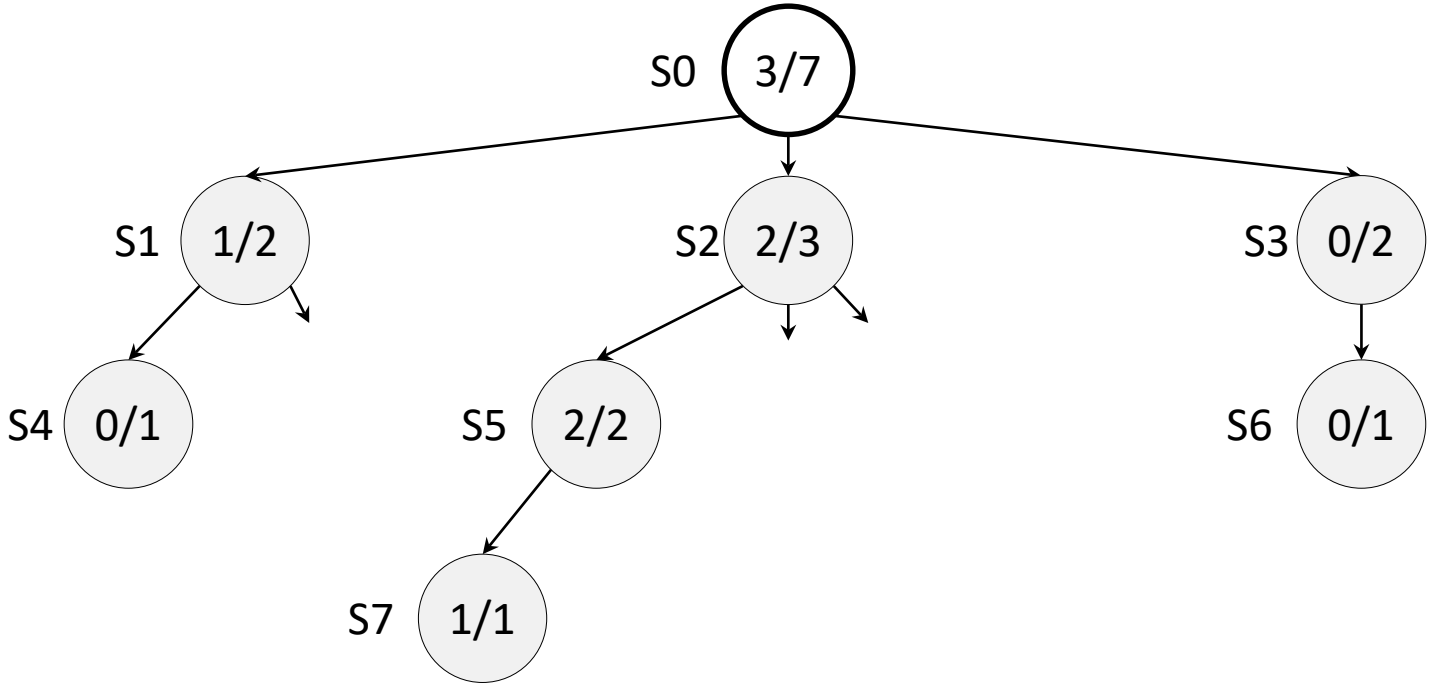
Simulation



Rétro-propagation



Sélection



	w	n	w/n	N	$(2N/n)^{1/2}$	UCB1
	2	5	0,400	5	1,414	1,814
S1	1	2	0,500	7	2,646	3,146
S2	1	2	0,500	7	2,646	3,146
S3	0	2	0,000	7	2,646	2,646
S4	0	1	0,000	2	2,000	2,000
S5	2	2	1,000	3	1,732	2,732
S6	0	1	0,000	2	2,000	2,000
S7	1	1	1,000	2	2,000	3,000

←

etc