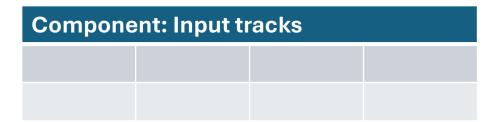
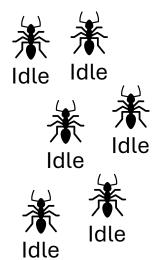
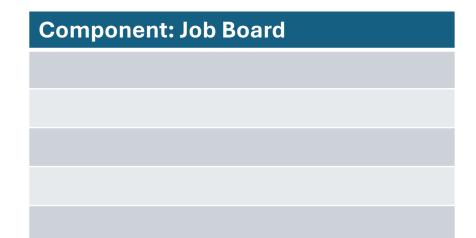


Board snapshot 1 (not started)

# Component: Decimal input display A ~ B ~



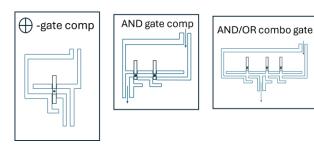




Steps available: Steps complete:

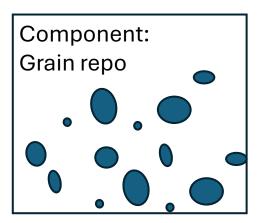
None

None





HUMAN										Value	Reserved	Read
READABLE	G	Р	С	S	4	3	2	1	0			ready



Board snapshot 2 (numbers submitted)

## **Component: Decimal input display**

Α	11
В	3



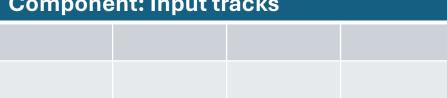








## **Component: Input tracks**





## **Component: Job Board**

- 1. Place grain in  $A_0$  (assigned)
- 2. Place grain in  $A_1$  (assigned)
- 3. Place grain in  $A_3$  (assigned)
- 4. Place grain in  $B_0$  (assigned)
- 5. Place grain in  $B_1$  (assigned)

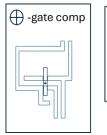
## Steps available:

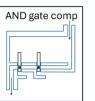
Lay out input A

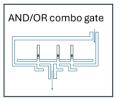
Lay out input B

#### Steps complete:

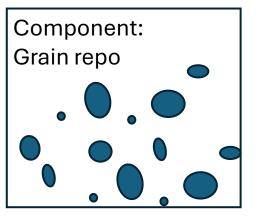
None







HUMAN										Value	Reserved	Read
READABLE	G	Р	С	S	4	3	2	1	0			ready



Board snapshot 3 (calculation in progress)

## **Component: Decimal input** display

Α	11

В 3

## Steps available:

- Lay out input A
- Lay out input B
- Calculate P<sub>i</sub> values (a pair (A<sub>i</sub> , B<sub>i</sub> available)

### Steps complete:

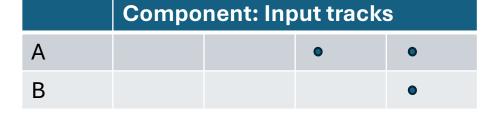
None

## 4

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	Idle	
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dle	Idle	Idle

## **Component: Job Board**

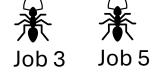
- 3. Place grain in  $A_3$  (assigned)
- 5. Place grain in  $B_1$  (assigned)
- 6. Place grain in Row 1 'reserved'
- 7. Place grain in XOR input 1
- 8. Place grain in XOR input 2

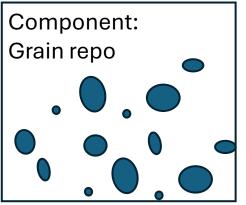




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gate comp	AND gate comp	AND/OR combo gate

HUMAN										Value	Reserved	Read
READABLE	G	Р	С	S	4	3	2	1	0			ready





Board snapshot 4 (calculation in progress)



	Compo	nent: Inp	ut track	S
Α			•	•
В			•	•

Steps available:

- Lay out input A
- Calculate  $P_0$ (pair ( $A_0$ ,  $B_0$ ) available)
- Other P values...

Steps complete:

Lay out input B

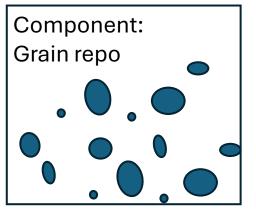
o. Flace g
(assigned
7 Place of

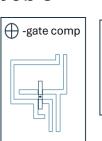
## Component: Job Board

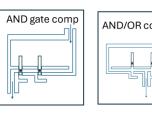
- 3. Place grain in  $A_3$  (assigned)
- 6. Place grain in Row 1 'reserved' (assigned)
- 7. Place grain in XOR input 1 (assigned)
- 8. Place grain in XOR input 2 (assigned)

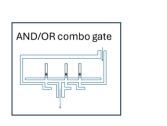


HUMAN										Value	Reserved	Read
READABLE	G	Р	С	S	4	3	2	1	0			ready









Board snapshot 5 (calculation in progress)

Steps available:

- Calculate P<sub>0</sub>
   (pair (A<sub>0</sub>, B<sub>0</sub>)
   available)
- Other avail P

Steps complete:

- Lay out input B
- Lay out input A

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Component: Job Board	Compo	nent: .	lob B	oard
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- 8. Place grain in XOR input 2 (assigned)
- 9. Place grain in Row 1 'P' slot (assigned)
- 10. Place grain in Row 1 '0' slot (assigned)



Component: Memory Table

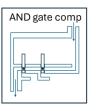
HUMAN										Value		Read
READABLE	G	Р	С	S	4	თ	2	1	0			ready
											•	

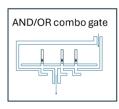


Α

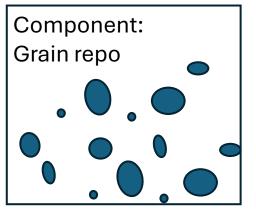
В







**Component: Input tracks** 



Board snapshot 6 (calculation in progress)

Steps available:

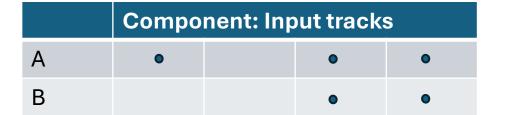
- Calculate  $P_0$  (pair ( $A_0$ ,  $B_0$ ) available)
- Other avail P val...

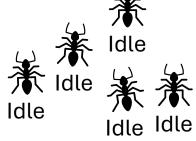
Steps complete:

- Lay out input B
- Lay out input A

Co	mpon	ent: J	ob	Boa	rd
10	Diago	~ <b>:</b>	:	D	1

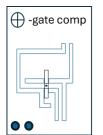
10. Place grain in Row 1 '0' slot (assigned)

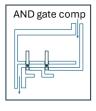


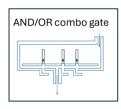


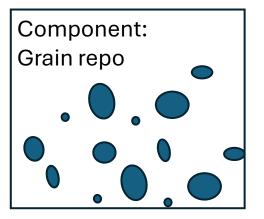


HUMAN										Value	Reserved	Read
READABLE	G	Р	С	S	4	3	2	1	0			ready
		•									•	









Board snapshot 7 (calculation in progress)

Steps available:

- Calculate P<sub>0</sub> (pair  $(A_0, B_0)$ available)
- Other avail P

Steps complete:

Lay out input B

**Component: Job Board** 

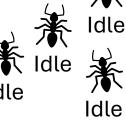
11. Operate XOR gate (assigned)

Lay out input A

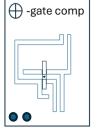


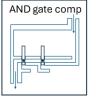
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₹	Idle
.e	

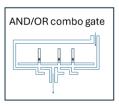
				val	•
	Compo	nent: Inp	out track	(S	
Α	•		•	•	涤 ldl
В			•	•	Idle



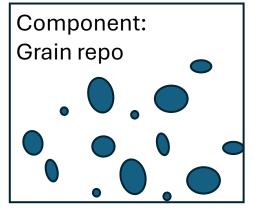
*	<u></u>		
	7		
Job	1	1	







HUMAN										Value	Reserved	Read
READABLE	G	Р	С	S	4	3	2	1	0			ready
$P_0$		•							•		•	



Board snapshot 8 (calculation in progress)

**Component: Input tracks** 

Steps available:

- Calculate P<sub>0</sub> (pair  $(A_0, B_0)$ available)
- Other avail P val...

Steps complete:

- Lay out input B
- Lay out input A









## 12. Record XOR result -> 0; place grain in Row 1 'read ready' as value = 0 means no grain in 'value' column (assigned) (result 1 would place grain in 'value' and only then

**Component: Job Board** 

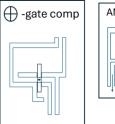
- 13. Clear XOR input 1 (assigned)
- 14. Clear XOR input 2 (assigned)

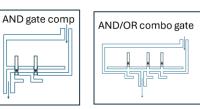


Α

В







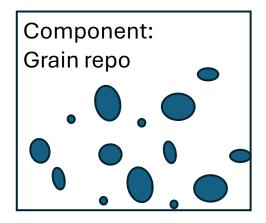
Component: Memory Table

HUMAN										Value	Reserved	Read
READABLE	G	Р	С	S	4	3	2	1	0			ready
P <sub>0</sub>		•							•		•	



**Job 12** 

read-ready)



Board snapshot 9 (calculation in progress)

Steps available:

- Other avail P val...
- $P_0$  read-ready; calculate  $G_0$

Steps complete:

- Lay out input B
- Lay out input A
- Calculate  $P_0$ (pair ( $A_0$ ,  $B_0$ ) available)

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dle

## **Component: Job Board**

14. Clear XOR input 2 (assigned)

15. Reserve...

16. Another job...

17. etc...



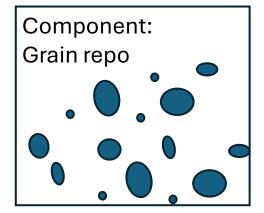


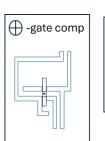


HUMAN										Value	Reserved	Read	
READABLE	G	Р	С	S	4	3	2	1	0			ready	
P <sub>o</sub>		•							•		•	•	



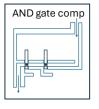


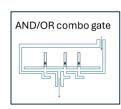




Α

В





Component: Input tracks