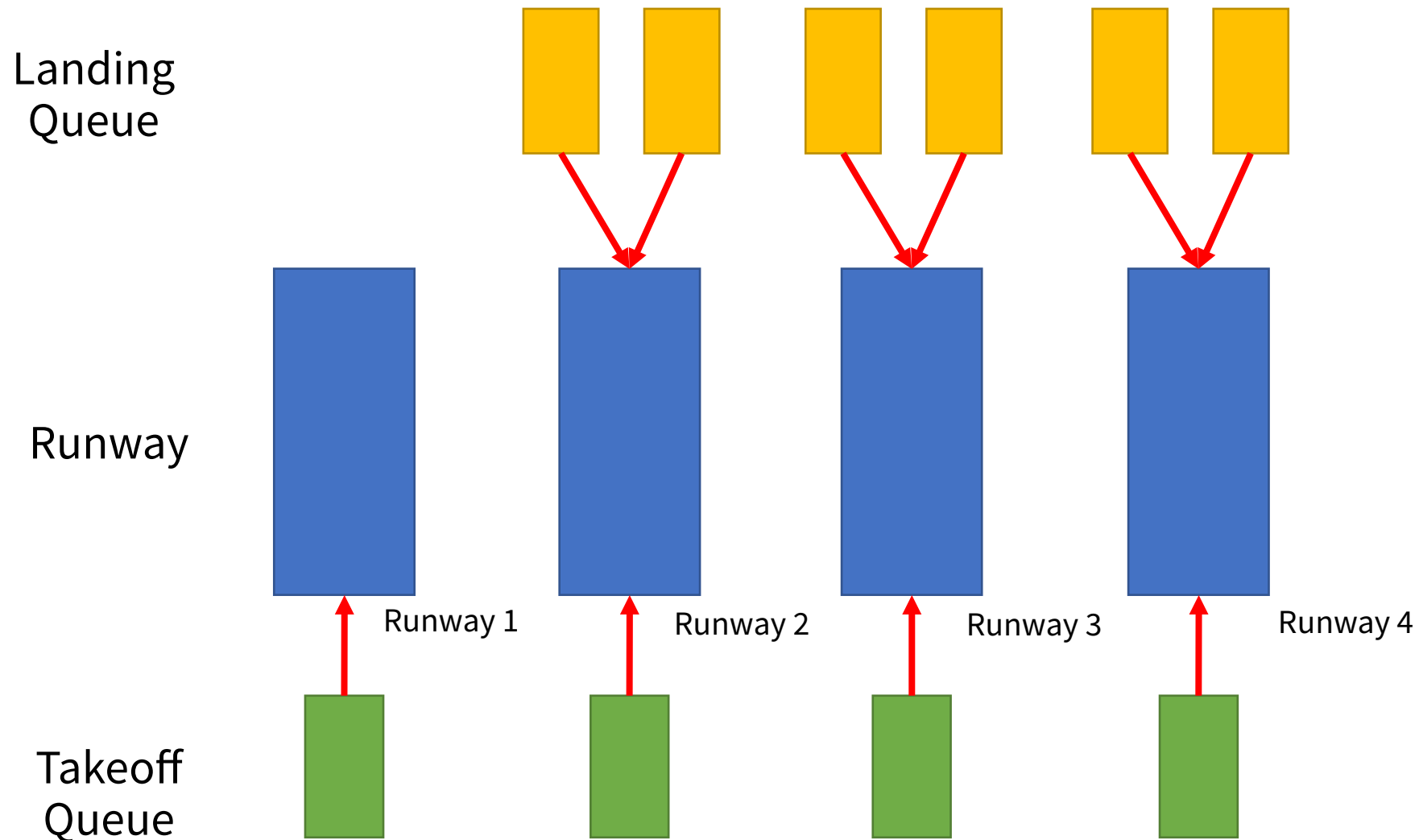


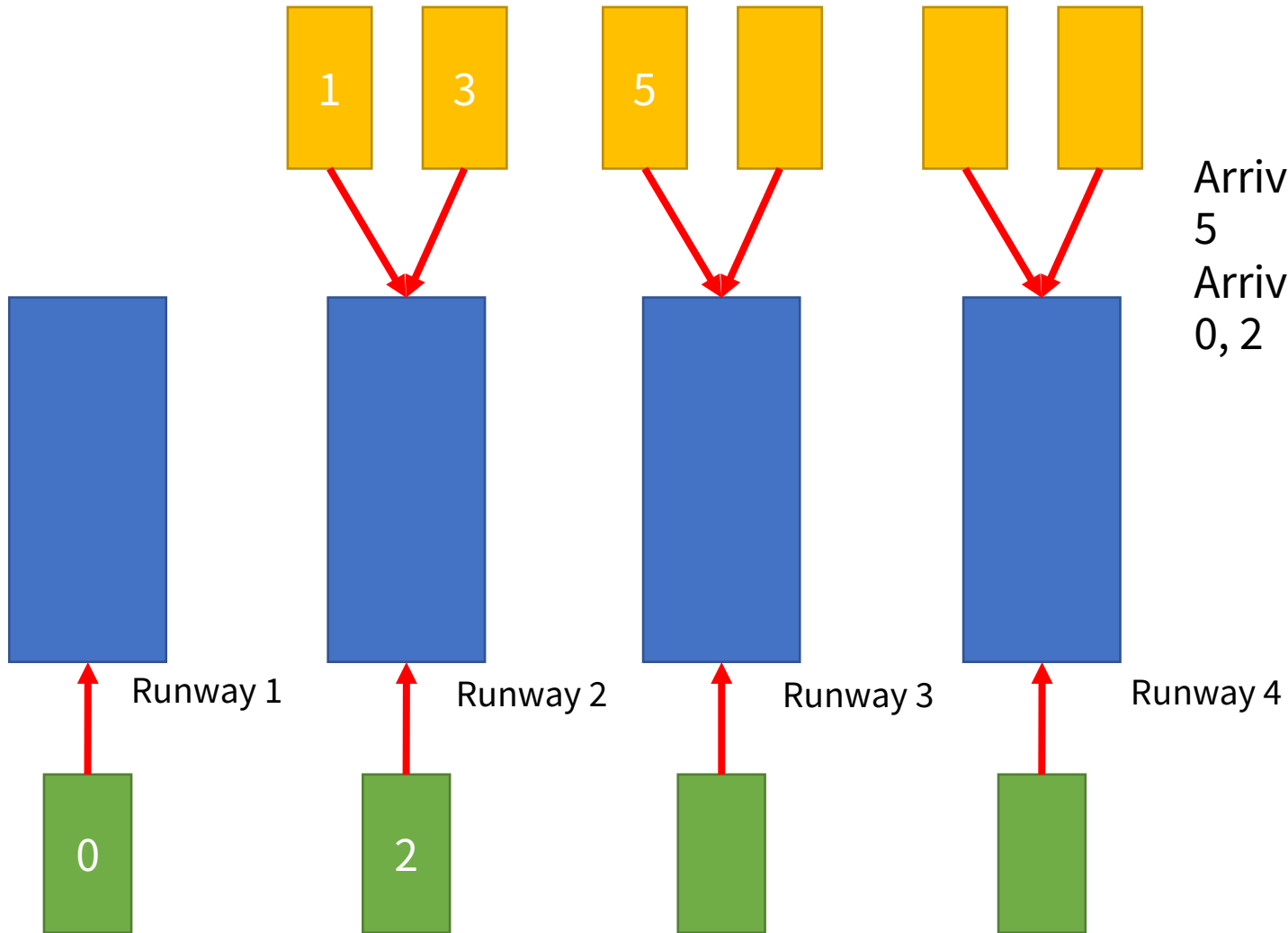
$$T = 0$$
[illegible]

$T = 1$

Landing  
Queue

Runway

Takeoff  
Queue



Arrive at landing queue: id = 1, 3, 5

Arrive at takeoff queue: id = 0, 2

Plane id (landing)	Fuel level
1	2
3	7
5	3



T = 2

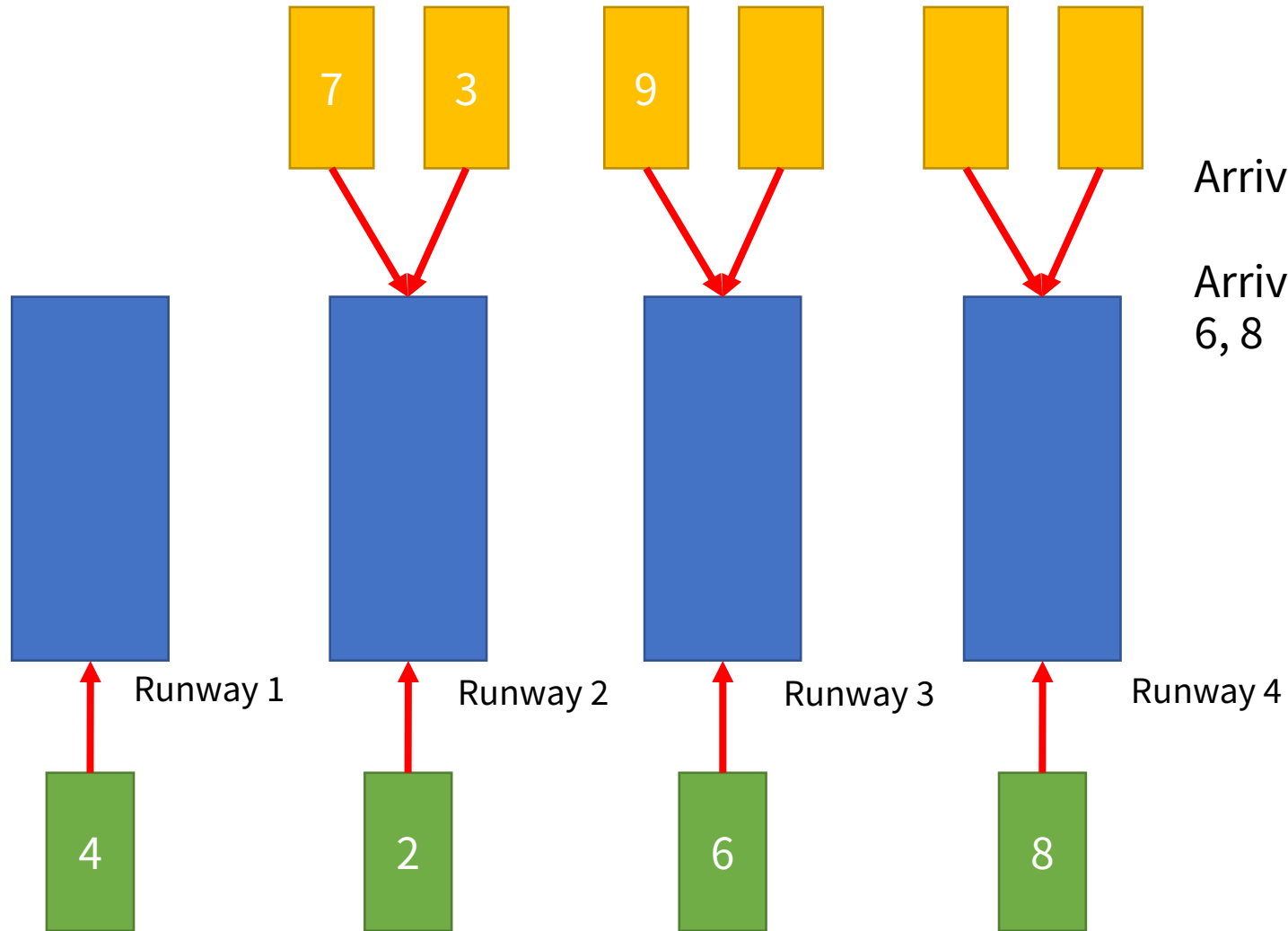
Landing  
Queue

Arrive at landing queue: id = 7, 9

Arrive at takeoff queue: id = 4,  
6, 8

Runway

Takeoff  
Queue



Put each arrived plane into a  
queue

Plane id (landing)	Fuel level
3	6
7	2
9	1

$T = 2$

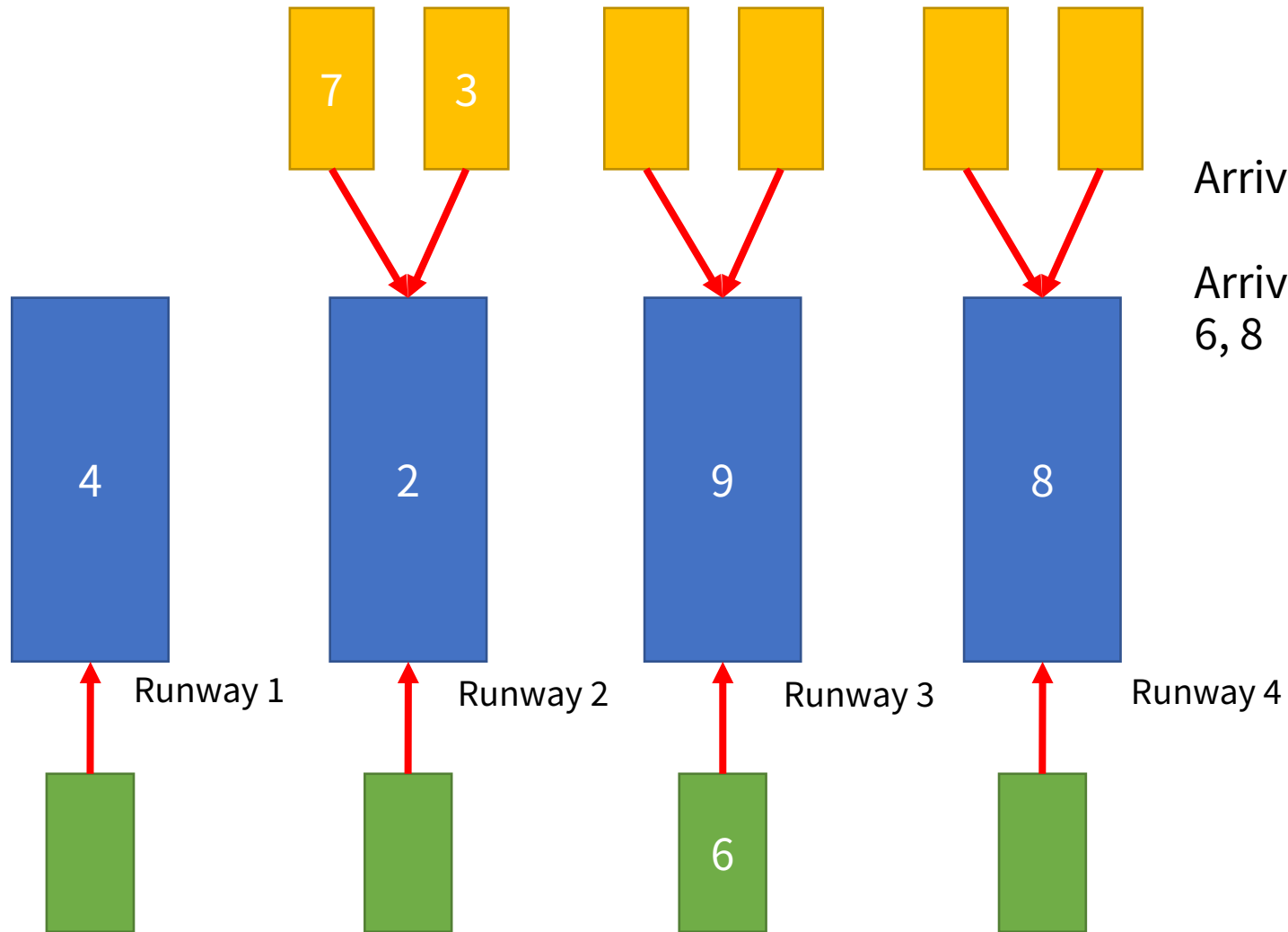
Landing  
Queue

Arrive at landing queue: id = 7, 9

Arrive at takeoff queue: id = 4,  
6, 8

Runway

Takeoff  
Queue



Each runway choose a plane  
in queue for landing or  
takeoff

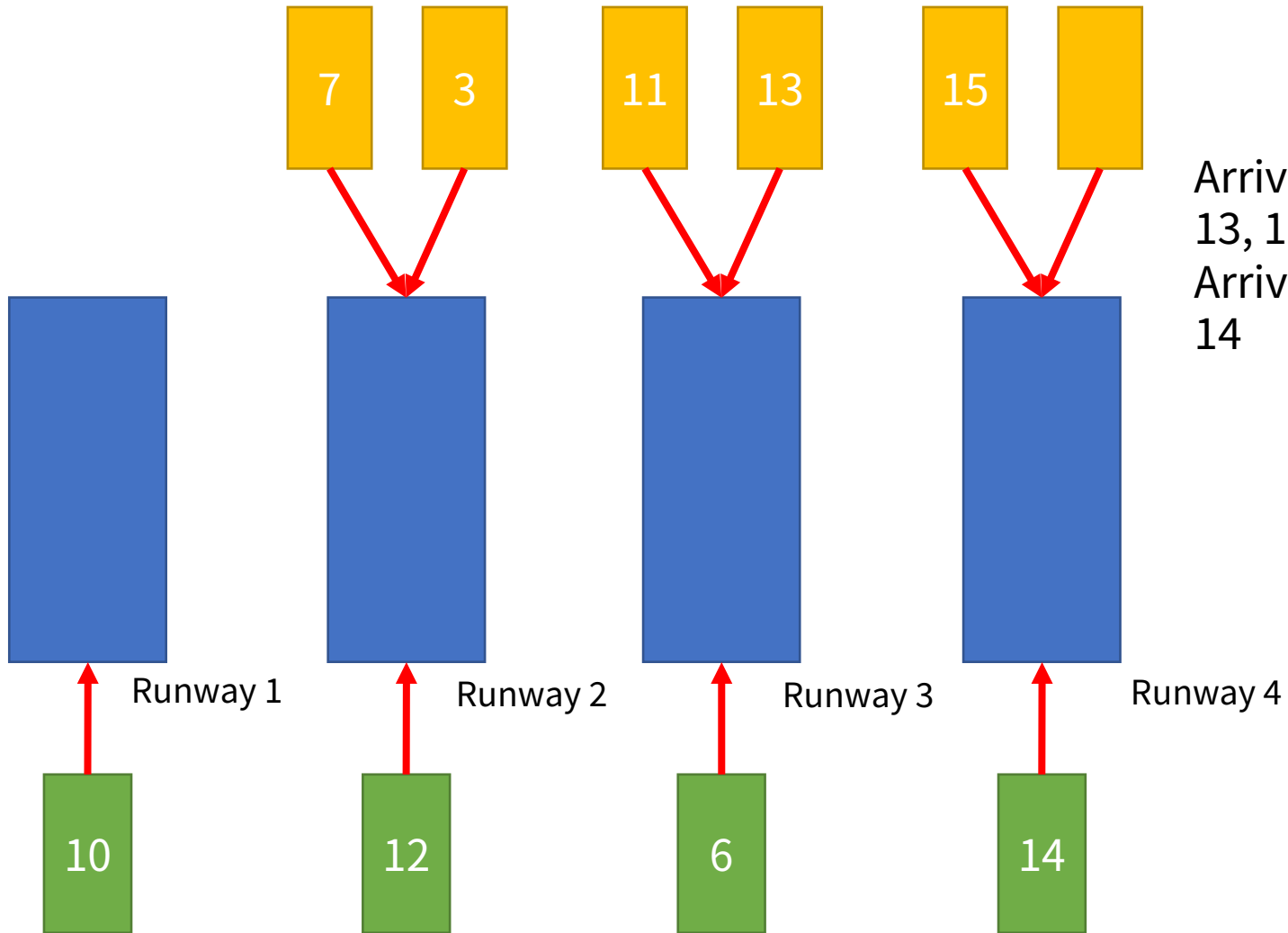
Plane id (landing)	Fuel level
3	6
7	2

T = 3

Landing  
Queue

Runway

Takeoff  
Queue



Arrive at landing queue: id = 11,  
13, 15  
Arrive at takeoff queue: id = 10, 12,  
14

Put each arrived plane into a  
queue

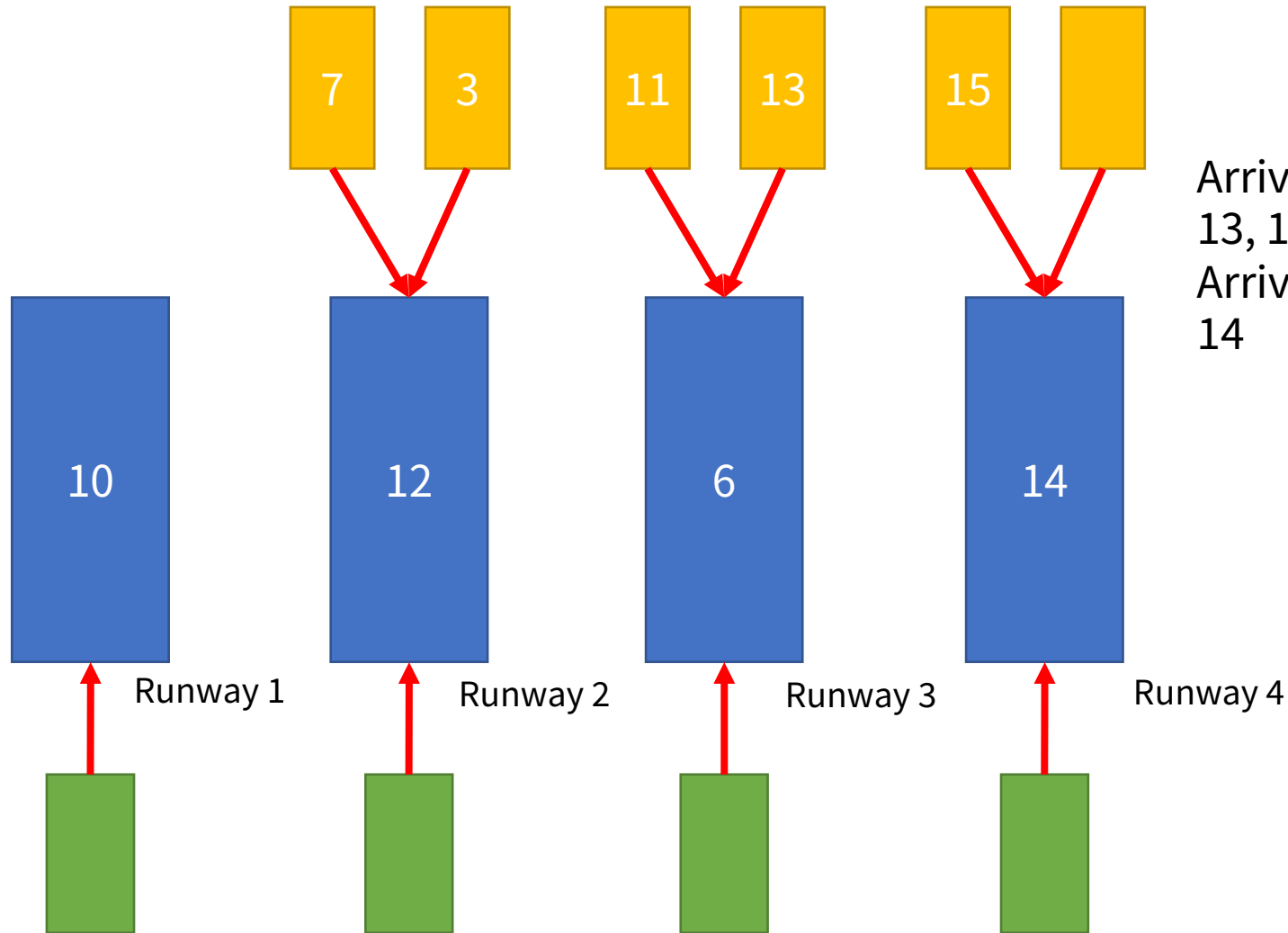
Plane id (landing)	Fuel level
3	5
7	1
11	1
13	1
15	2

$T = 3$

Landing  
Queue

Runway

Takeoff  
Queue



Arrive at landing queue: id = 11,  
13, 15  
Arrive at takeoff queue: id = 10, 12,  
14

Plane id (landing)	Fuel level
3	5
7	1
11	1
13	1
15	2

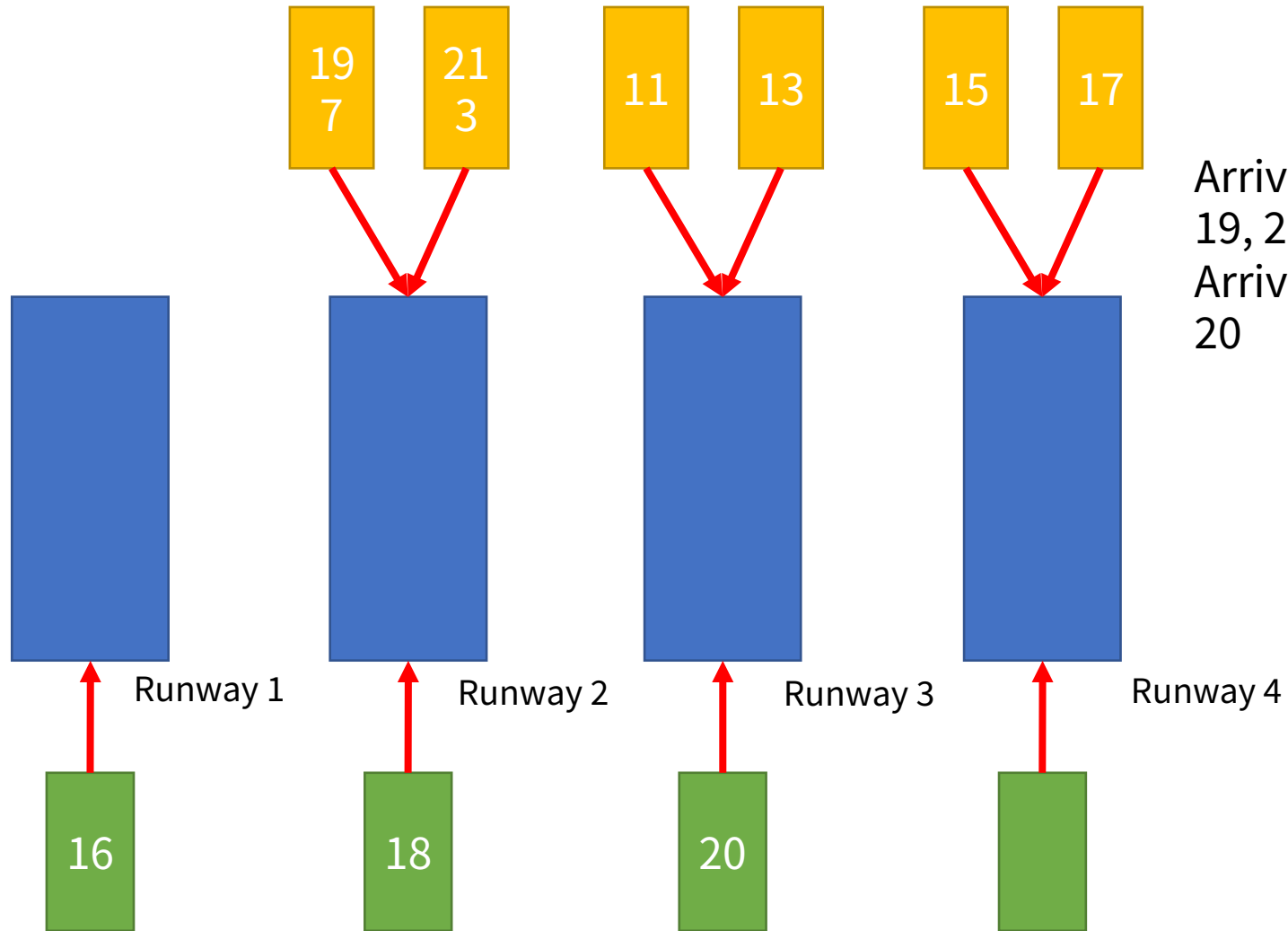
Each runway choose a plane  
in queue for landing or  
takeoff

$T = 4$

Landing  
Queue

Runway

Takeoff  
Queue



Arrive at landing queue: id = 17,  
19, 21  
Arrive at takeoff queue: id = 16, 18,  
20

Plane id (landing)	Fuel level
3	4
7	0
11	0
13	0
15	1
17	3
19	1
21	2

Put each arrived plane into a  
queue

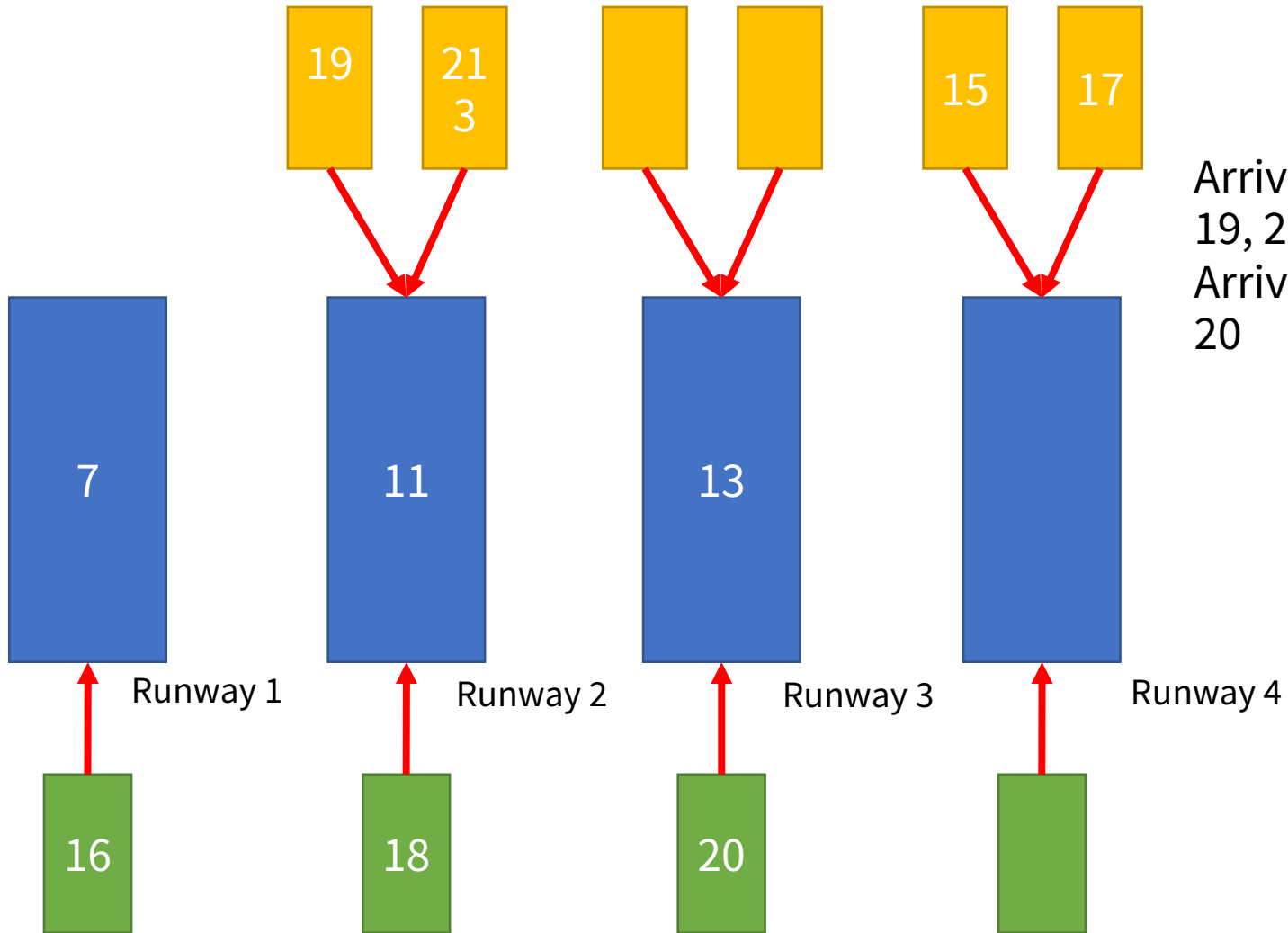


$$T = 4$$

Landing  
Queue

Runway

Takeoff  
Queue



Arrive at landing queue: id = 17, 19, 21  
Arrive at takeoff queue: id = 16, 18, 20

Plane id (landing)	Fuel level
3	4
7	0
11	0
13	0
15	1
17	3
19	1
21	2

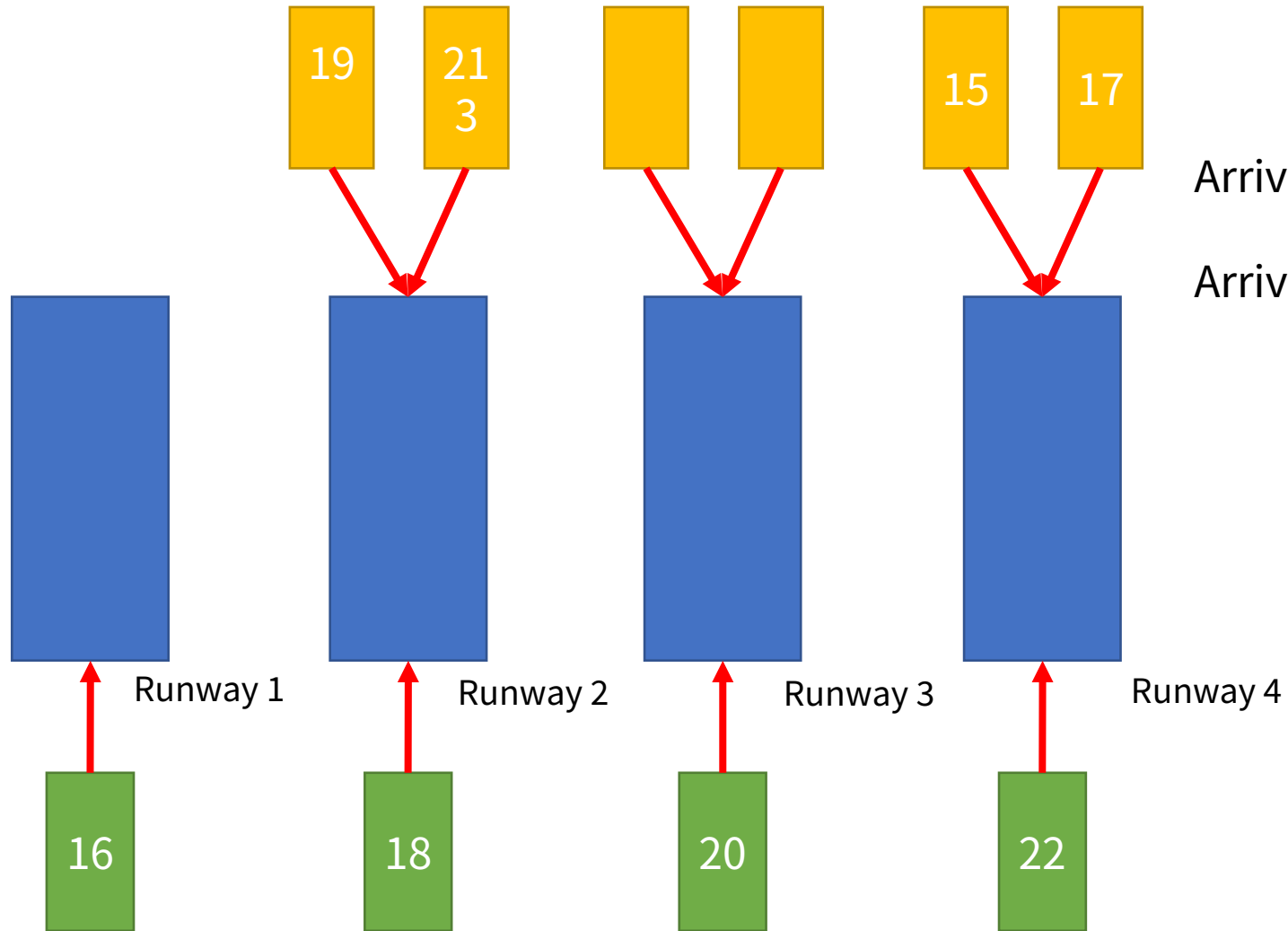
Because the planes with id 7, 11, 13 have run out of their fuel, they must land in runways.

T = 5

Landing  
Queue

Runway

Takeoff  
Queue



Arrive at landing queue:

Arrive at takeoff queue: 22

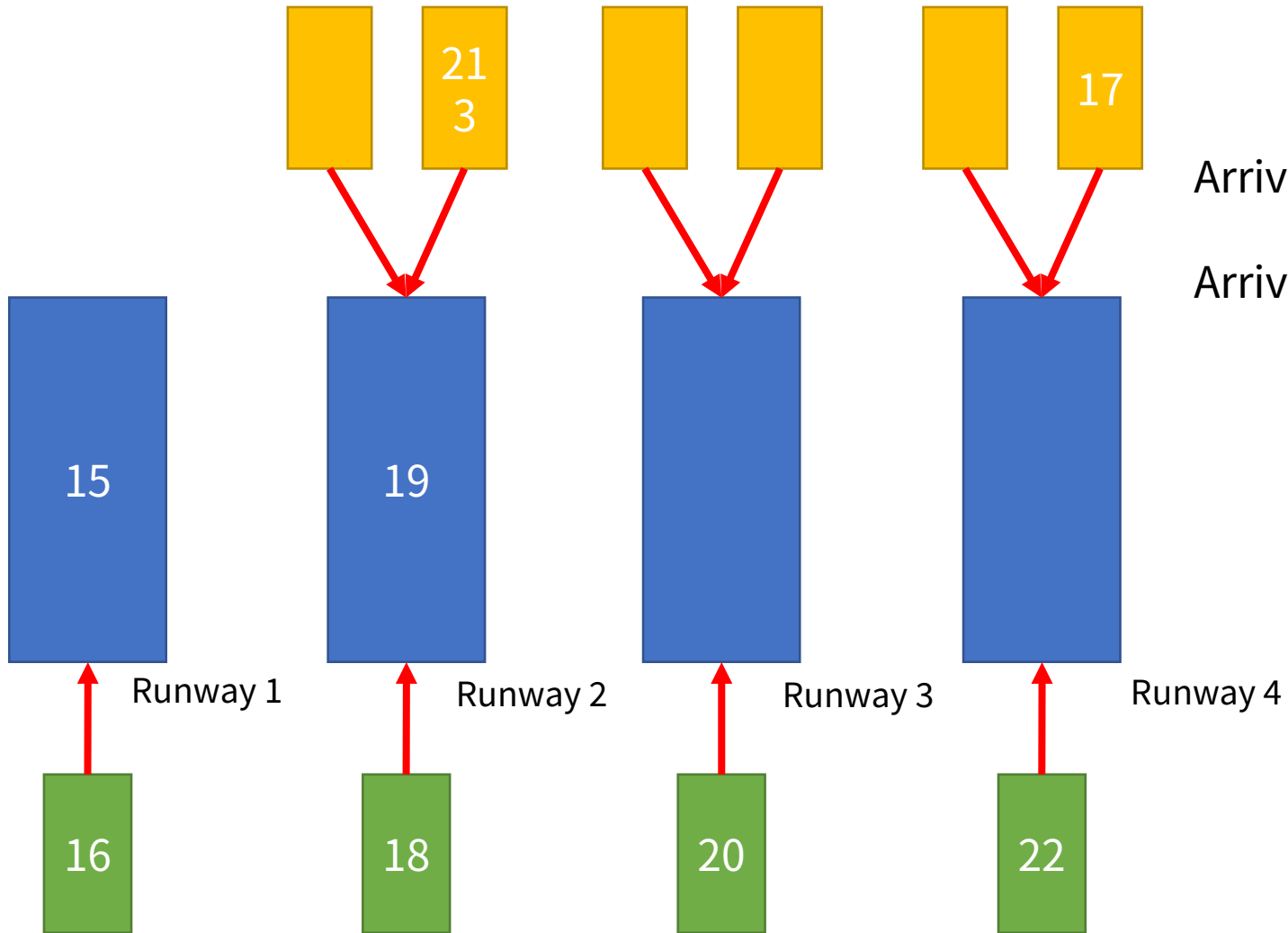
Plane id (landing)	Fuel level
3	3
15	0
17	2
19	0
21	1

T = 5

Landing  
Queue

Runway

Takeoff  
Queue



Arrive at landing queue:

Arrive at takeoff queue: 22

Plane id (landing)	Fuel level
3	3
15	0
17	2
19	0
21	1

Because the planes with id 15, 19  
have run out of their fuel, they must  
land in runways.