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abhi@abhi:~/Desktop/programming/airport_with_3_runways$ make -f Makefile.mk
make: 'a.out' is up to date.
abhi@abhi:~/Desktop/programming/airport_with_3_runways$ ./a.out

=====

FLIGHTS IN QUEUE:

Landing:

Takeoff:
Flight number: 1

=====

Runway 1 is free
Flight number 1 took off on runway 2
Runway 3 is free

=====

FLIGHTS IN QUEUE:

Landing:

Takeoff:
```

```
=====

FLIGHTS IN QUEUE:

Landing:

Takeoff:
Flight number: 2
Flight number: 3

=====

Runway 1 is free
Flight number 2 took off on runway 2
Flight number 3 took off on runway 3

=====

FLIGHTS IN QUEUE:

Landing:

Takeoff:
Flight number: 4

=====
```

```
Activities Terminal
Wed May 13 22:31:50
abhijnan@abhijnan-Spin-5P314-53N: ~/Desktop/programming/airport_with_3_runways

Runway 1 is free
Flight number 4 took off on runway 2
Runway 3 is free

=====

FLIGHTS IN QUEUE:

Landing:
Flight number: 5

Takeoff:

=====

Flight number 5 landed on runway 1
Runway 2 is free
Runway 3 is free

=====

FLIGHTS IN QUEUE:

Landing:
Flight number: 6
```

```
Activities Terminal
Wed May 13 22:31:54
abhijnan@abhijnan-Spin-5P314-53N: ~/Desktop/programming/airport_with_3_runways

FLIGHTS IN QUEUE:

Landing:
Flight number: 6
Flight number: 7
Flight number: 8

Takeoff:

=====

Flight number 6 landed on runway 1
Runway 2 is free
Flight number 7 landed on runway 3

=====

FLIGHTS IN QUEUE:

Landing:
Flight number: 8

Takeoff:
```

```
Activities Terminal Wed May 13 22:32:03
abhinan@abhinan-Spin5P314-53N: ~/Desktop/programming/airport_with_3_runways

=====
Flight number 8 landed on runway 1
Runway 2 is free
Runway 3 is free
=====

FLIGHTS IN QUEUE:

Landing:
Flight number: 9
Flight number: 10

Takeoff:
=====

Flight number 9 landed on runway 1
Runway 2 is free
Flight number 10 landed on runway 3
=====

FLIGHTS IN QUEUE:

Landing:
```

```
Activities Terminal Wed May 13 22:32:08
abhinan@abhinan-Spin5P314-53N: ~/Desktop/programming/airport_with_3_runways

=====

FLIGHTS IN QUEUE:

Landing:
Flight number: 11

Takeoff:
Flight number: 12
=====

Flight number 11 landed on runway 1
Flight number 12 took off on runway 2
Runway 3 is free
=====

FLIGHTS IN QUEUE:

Landing:

Takeoff:
Flight number: 13
Flight number: 14
=====
```

```
Runway 1 is free
Flight number 13 took off on runway 2
Flight number 14 took off on runway 3

FLIGHTS IN QUEUE:

Landing:
Flight number: 16

Takeoff:
Flight number: 15
Flight number: 17

Flight number 16 landed on runway 1
Flight number 15 took off on runway 2
Flight number 17 took off on runway 3

FLIGHTS IN QUEUE:
```

```
FLIGHTS IN QUEUE:

Landing:

Takeoff:
Flight number: 18
Flight number: 19
Flight number: 20

Runway 1 is free
Flight number 18 took off on runway 2
Flight number 19 took off on runway 3

FLIGHTS IN QUEUE:

Landing:

Takeoff:
Flight number: 20
Flight number: 21
```

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Activities Terminal Wed May 13 22:32:28 abhijnan@abhijnan-Spin5P314-53N: ~/Desktop/programming/airport_with_3_runways

=====
FLIGHTS IN QUEUE:

Landing:

Takeoff:
Flight number: 20
Flight number: 21

=====
Runway 1 is free
Flight number 20 took off on runway 2
Flight number 21 took off on runway 3

=====
FLIGHTS IN QUEUE:

Landing:
Flight number: 22

Takeoff:
Flight number: 23

=====
```

```
Activities Terminal Wed May 13 22:32:32 abhijnan@abhijnan-Spin5P314-53N: ~/Desktop/programming/airport_with_3_runways

=====
Flight number 22 landed on runway 1
Flight number 23 took off on runway 2
Runway 3 is free

=====
FLIGHTS IN QUEUE:

Landing:
Flight number: 25
Flight number: 26

Takeoff:
Flight number: 24

=====
Flight number 25 landed on runway 1
Flight number 24 took off on runway 2
Flight number 26 landed on runway 3

=====
FLIGHTS IN QUEUE:
```

```
Activities Terminal Wed May 13 22:32:37
abhinan@abhinan-Spin5P314-53N: ~/Desktop/programming/airport_with_3_runways

=====
FLIGHTS IN QUEUE:

Landing:
Flight number: 27
Flight number: 29

Takeoff:
Flight number: 28

=====
Flight number 27 landed on runway 1
Flight number 28 took off on runway 2
Flight number 29 landed on runway 3

=====
FLIGHTS IN QUEUE:

Landing:
Flight number: 30

Takeoff:
Flight number: 31
```

```
Activities Terminal Wed May 13 22:32:42
abhinan@abhinan-Spin5P314-53N: ~/Desktop/programming/airport_with_3_runways

=====
FLIGHTS IN QUEUE:

Landing:
Flight number: 30

Takeoff:
Flight number: 31
Flight number: 32
Flight number: 33

=====
Flight number 30 landed on runway 1
Flight number 31 took off on runway 2
Flight number 32 took off on runway 3

=====
FLIGHTS IN QUEUE:

Landing:
Flight number: 35

Takeoff:
```

```
Activities Terminal Wed May 13 22:32:47
abhinan@abhinan-Spin5P314-53N: ~/Desktop/programming/airport_with_3_runways

=====
FLIGHTS IN QUEUE:

Landing:
Flight number: 35

Takeoff:
Flight number: 33
Flight number: 34

=====
Flight number 35 landed on runway 1
Flight number 33 took off on runway 2
Flight number 34 took off on runway 3

=====
FLIGHTS IN QUEUE:

Landing:
Flight number: 36
Flight number: 37

Takeoff:
```

```
Activities Terminal Wed May 13 22:32:50
abhinan@abhinan-Spin5P314-53N: ~/Desktop/programming/airport_with_3_runways

=====
FLIGHTS IN QUEUE:

Landing:
Flight number: 36
Flight number: 37

Takeoff:

=====
Flight number 36 landed on runway 1
Runway 2 is free
Flight number 37 landed on runway 3

=====
FLIGHTS IN QUEUE:

Landing:
Flight number: 39

Takeoff:
Flight number: 38

=====
```

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Activities Terminal Wed May 13 22:32:59 abhijnan@abhijnan-Spin5P314-53N: ~/Desktop/programming/airport_with_3_runways

=====
Flight number 39 landed on runway 1
Flight number 38 took off on runway 2
Runway 3 is free

=====

FLIGHTS IN QUEUE:

Landing:

Takeoff:
Flight number: 40
Flight number: 41

=====

Runway 1 is free
Flight number 40 took off on runway 2
Flight number 41 took off on runway 3

=====

FLIGHTS IN QUEUE:

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Activities Terminal Wed May 13 22:33:08 abhijnan@abhijnan-Spin5P314-53N: ~/Desktop/programming/airport_with_3_runways

=====

FLIGHTS IN QUEUE:

Landing:

Takeoff:
Flight number: 42

=====

Runway 1 is free
Flight number 42 took off on runway 2
Runway 3 is free

=====

FLIGHTS IN QUEUE:

Landing:
Flight number: 44

Takeoff:
Flight number: 43

=====
Flight number 44 landed on runway 1
```



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Activities Terminal Wed May 13 22:33:13 abhijnan@abhijnan-Spin5P314-53N: ~/Desktop/programming/airport_with_3_runways

-----
Flight number 44 landed on runway 1
Flight number 43 took off on runway 2
Runway 3 is free
-----

FLIGHTS IN QUEUE:

Landing:

Takeoff:
Flight number: 45
Flight number: 46
Flight number: 47
-----

Runway 1 is free
Flight number 45 took off on runway 2
Flight number 46 took off on runway 3
-----

FLIGHTS IN QUEUE:
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Activities Terminal Wed May 13 22:33:17 abhijnan@abhijnan-Spin5P314-53N: ~/Desktop/programming/airport_with_3_runways

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FLIGHTS IN QUEUE:

Landing:
Flight number: 50

Takeoff:
Flight number: 47
Flight number: 48
Flight number: 49
-----

Flight number 50 landed on runway 1
Flight number 47 took off on runway 2
Flight number 48 took off on runway 3
-----

FLIGHTS IN QUEUE:

Landing:
Flight number: 51
Flight number: 52
```

```
Activities Terminal Wed May 13 22:33:25
abhinan@abhinan-Spin5P314-53N: ~/Desktop/programming/airport_with_3_runways

FLIGHTS IN QUEUE:

Landing:
Flight number: 51
Flight number: 52

Takeoff:
Flight number: 49
Flight number: 53

-----

Flight number 51 landed on runway 1
Flight number 49 took off on runway 2
Flight number 52 landed on runway 3

-----

FLIGHTS IN QUEUE:

Landing:
Flight number: 54

Takeoff:
```

```
Activities Terminal Wed May 13 22:33:33
abhinan@abhinan-Spin5P314-53N: ~/Desktop/programming/airport_with_3_runways

FLIGHTS IN QUEUE:

Landing:
Flight number: 54

Takeoff:
Flight number: 53
Flight number: 55

-----

Flight number 54 landed on runway 1
Flight number 53 took off on runway 2
Flight number 55 took off on runway 3

-----

FLIGHTS IN QUEUE:

Landing:
Flight number: 56

Takeoff:
```

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Activities Terminal Wed May 13 22:33:41
abhijnan@abhijnan-Spin5P314-53N: ~/Desktop/programming/airport_with_3_runways

=====
Flight number 56 landed on runway 1
Runway 2 is free
Runway 3 is free

=====

FLIGHTS IN QUEUE:

Landing:
Flight number: 57
Flight number: 58
Flight number: 59

Takeoff:

=====

Flight number 57 landed on runway 1
Runway 2 is free
Flight number 58 landed on runway 3

=====

FLIGHTS IN QUEUE:
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Activities Terminal Wed May 13 22:33:45
abhijnan@abhijnan-Spin5P314-53N: ~/Desktop/programming/airport_with_3_runways

=====

FLIGHTS IN QUEUE:

Landing:
Flight number: 59

Takeoff:
Flight number: 60
Flight number: 61

=====

Flight number 59 landed on runway 1
Flight number 60 took off on runway 2
Flight number 61 took off on runway 3

=====

FLIGHTS IN QUEUE:

Landing:

Takeoff:
Flight number: 62

=====
```

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Activities Terminal Wed May 13 22:33:49
abhi@abhi@abhi-jan-SP314-53N: ~/Desktop/programming/airport_with_3_runways

Landing:

Takeoff:
Flight number: 62

-----

Runway 1 is free
Flight number 62 took off on runway 2
Runway 3 is free

Simulation has concluded after 30 units

Analysis:

Total number of planes processed:      62
Number of planes landed:              27
Number of planes took off:            35
Number of planes ready to land:       0
Number of planes ready to takeoff:    0
Percentage of time runway is idle:    0.31
Average wait time to land:            0.80
Average wait time to take off:        0.89
abhi@abhi@abhi-jan-SP314-53N:~/Desktop/programming/airport_with_3_runways$
```