x, y, z

A and B

$A \% B == 0$

B = one of the x, y, z.

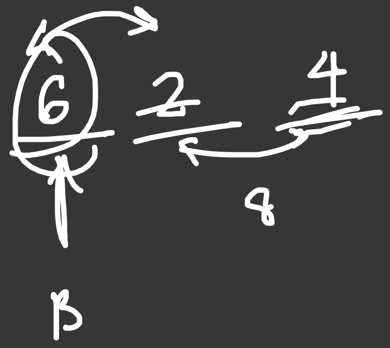
$6 \times 2 \times 4$

A = product of remaining 2

A is % B == 0

T B = $\frac{48}{4}$,

T: if (A % B == 0)



B = 4
A = 12
12 / 4 == 0

B = x
B = y
B = z

B = x
A = yz

B = y
A = xz

B = z
A = xy

48 / 4

48 %

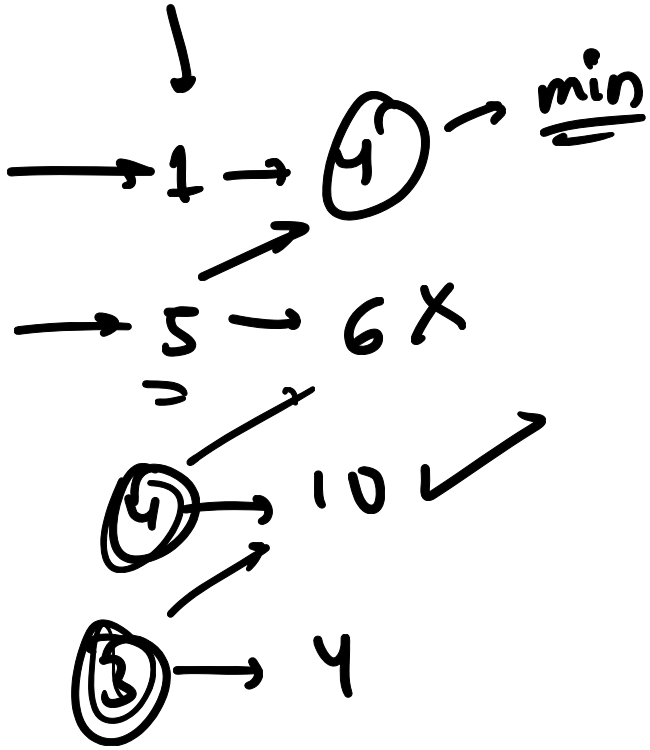
48

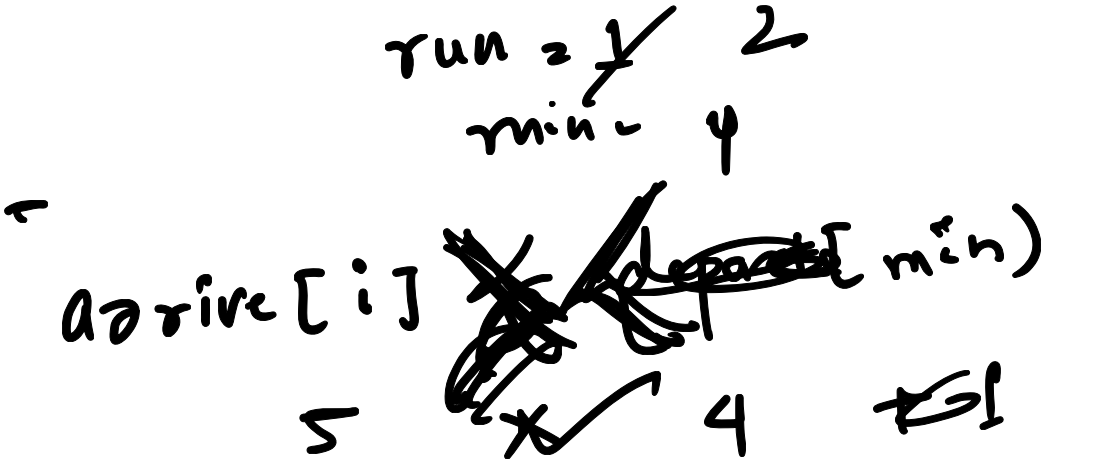
48

$\frac{48}{6x}$

b

TB = $\frac{48}{4}$





5 > 4 X

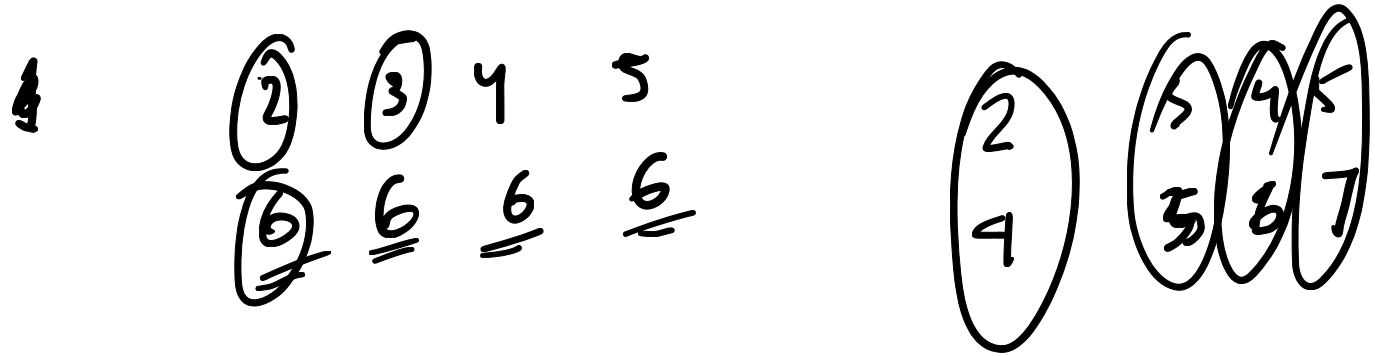
4 >

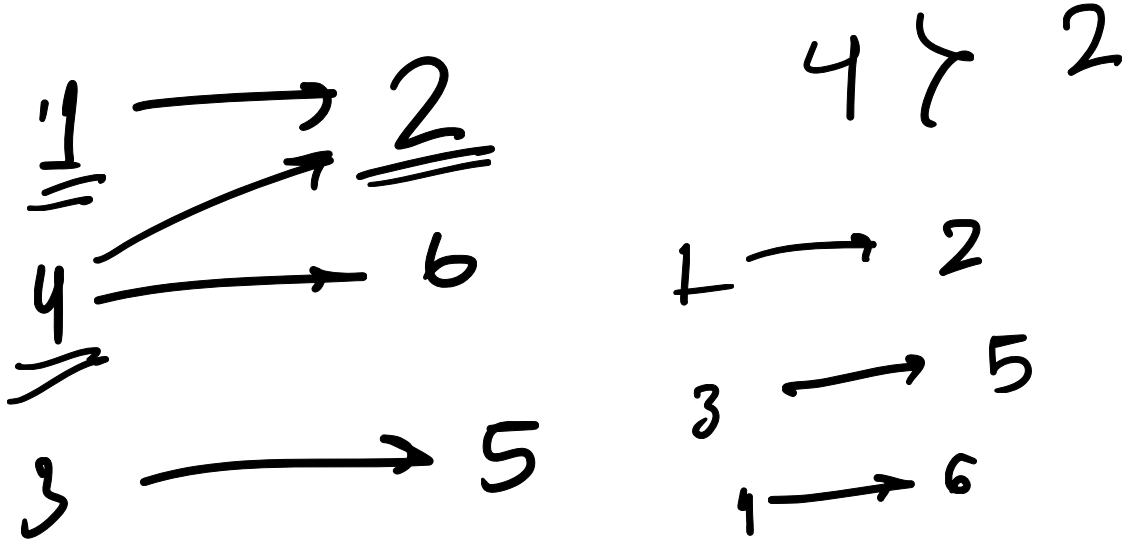
1 → 4

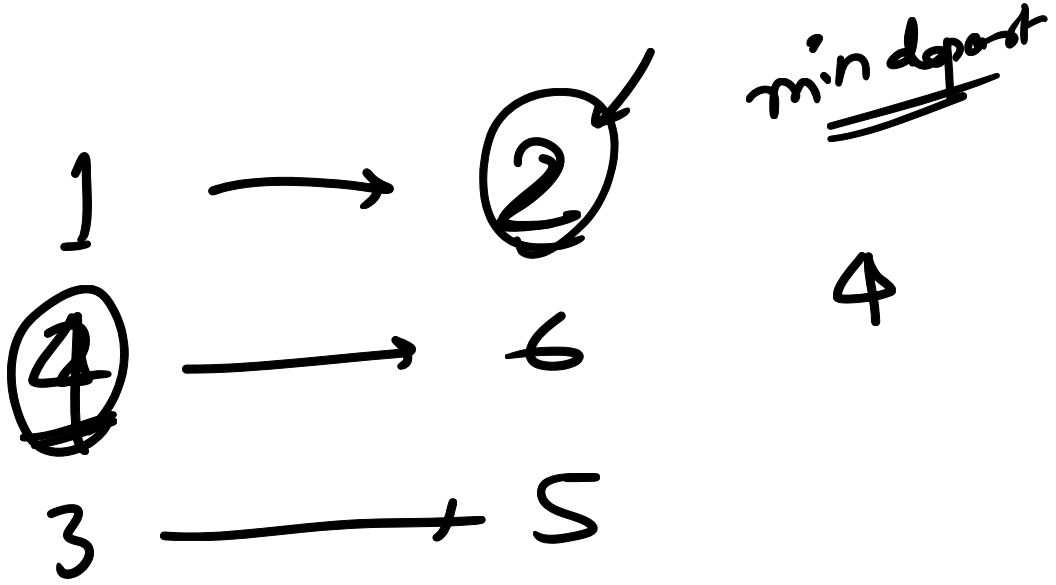
5 → 6

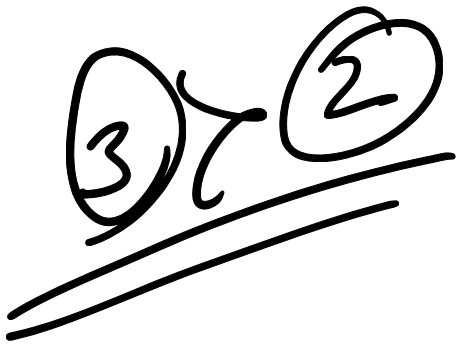
4 → 10

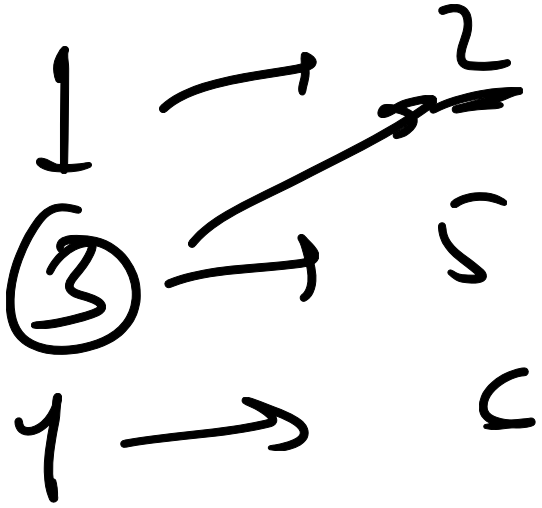
3

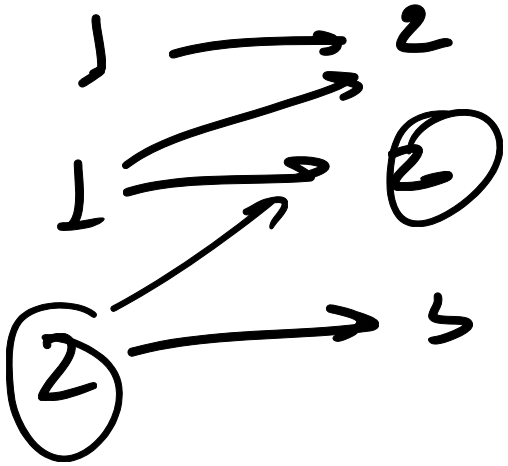

2 3 4 5
6 6 6 6
2
4
5 4 5
3 3 7


1 → 2
4 → 6
3 → 5
4 > 2
1 → 2
3 → 5
1 → 6


min depart
1 → 2
4
4 → 6
3 → 5


3 2
4


1 → 2
3 → 5
4 → 6



1 < 2 x.run++

1 <

N empty box

M → diff. colours 1 → M

Min no. of boxes
having balls

Airport :

N A D — min. no. of runway required.

N = 3

A = {1, 1, 2}

D = {2, 2, 3}

maximum depart

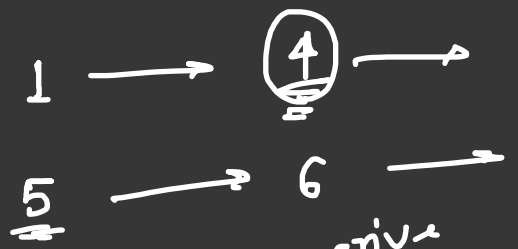
1 ⟶ 2

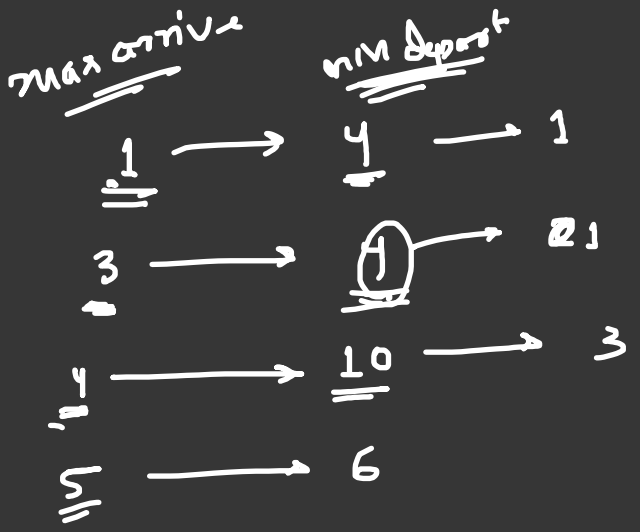
1 ⟶ 2

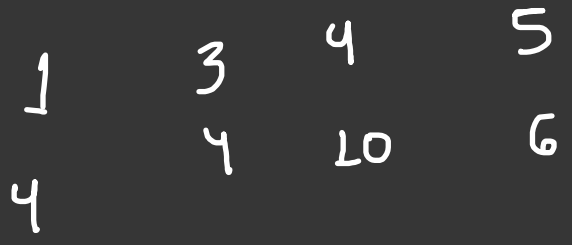
2 ⟶ 3

} 3 runways

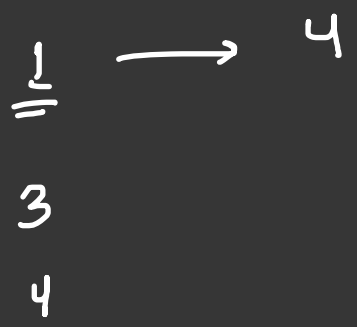

1
5
4
3
10
4
6
4

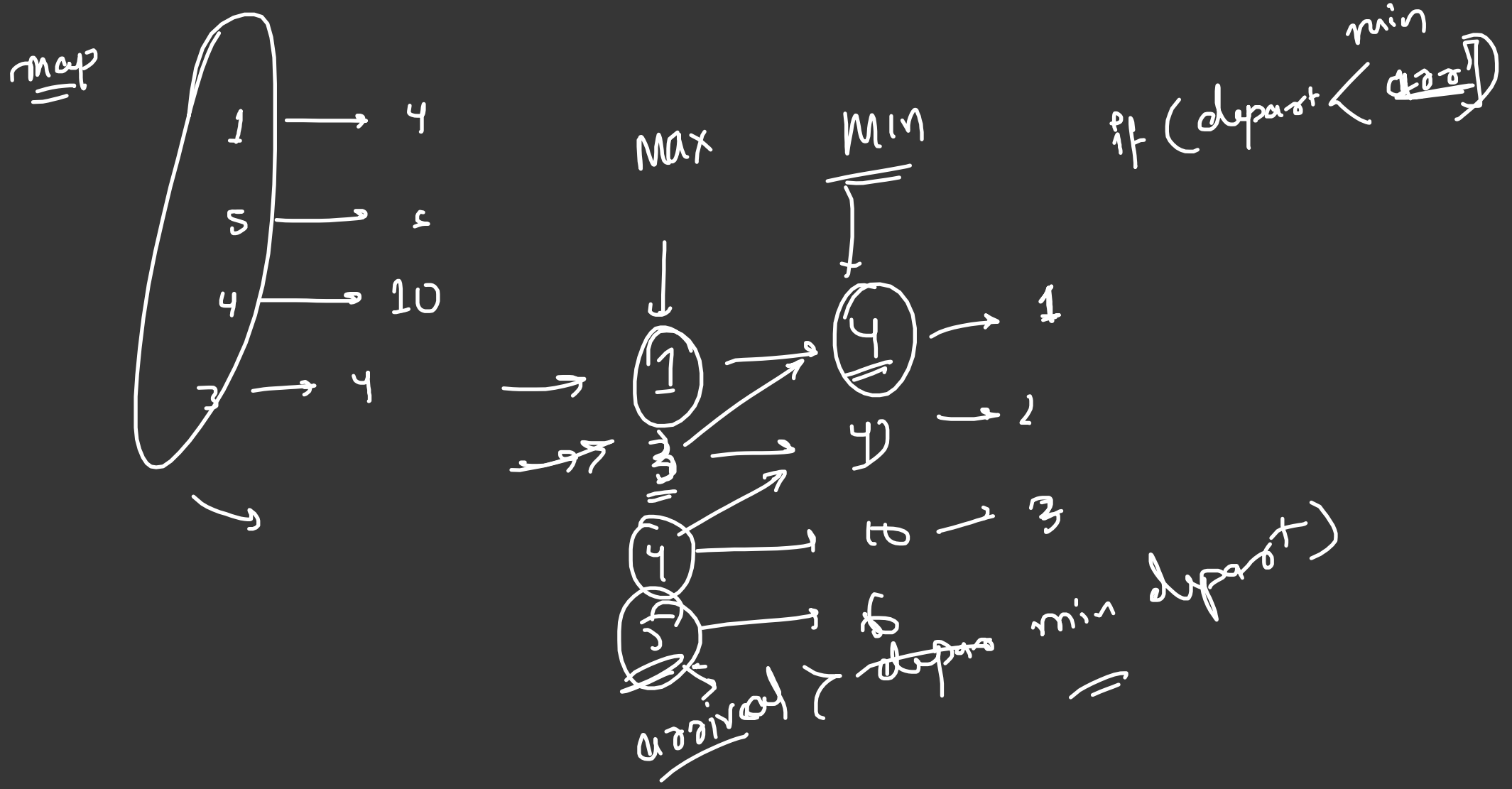

1
4
1
5
6


max arrive
min depart
1
4
1
3
1
2
4
10
3
5
6


1
3
4
5
4
10
6
4

1


1
4
3
4


map
1
5
4
3
4
5
10
4
max
min
1
3
4
5
4
4
1
2
3
6
arrival
min dpart
if (dpart < min)

1 4 3

2 C 5

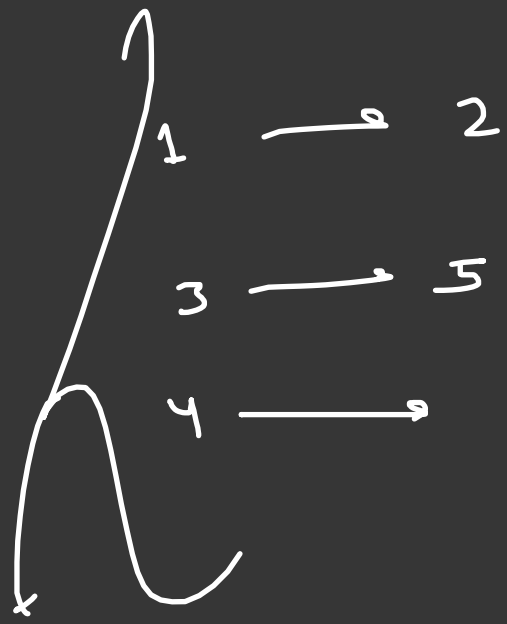
min 2

1

1 → 2

3 → 5

4 → 6



1 → 2

4 → 6

3 → 5

1

Vector

N M

N=5 → box

M=3 {5 4,4}

1 2 3

1 2 3

1 2 3

N1 → 1 2 3

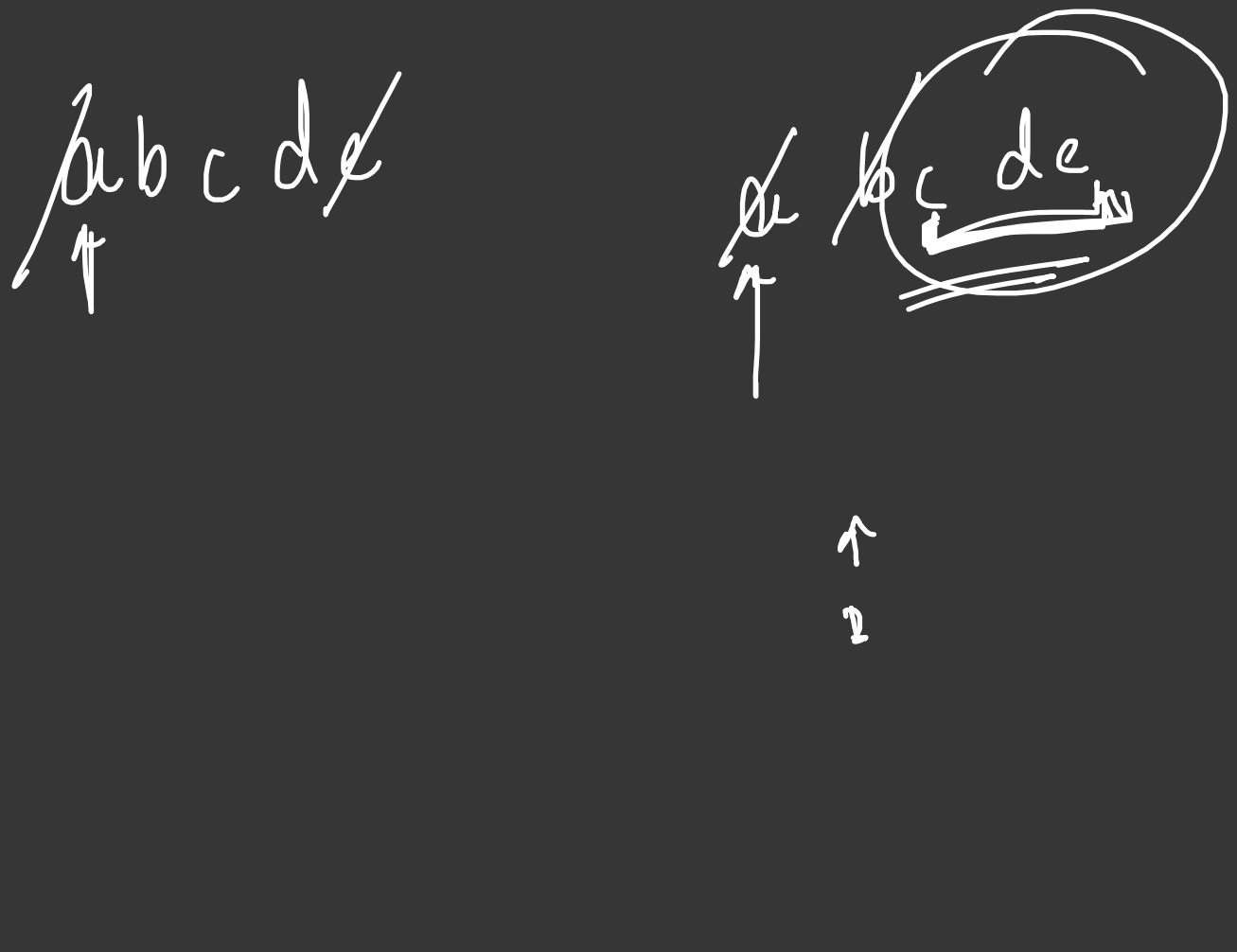
N2 → 1 2 3

3 → 1 2 3

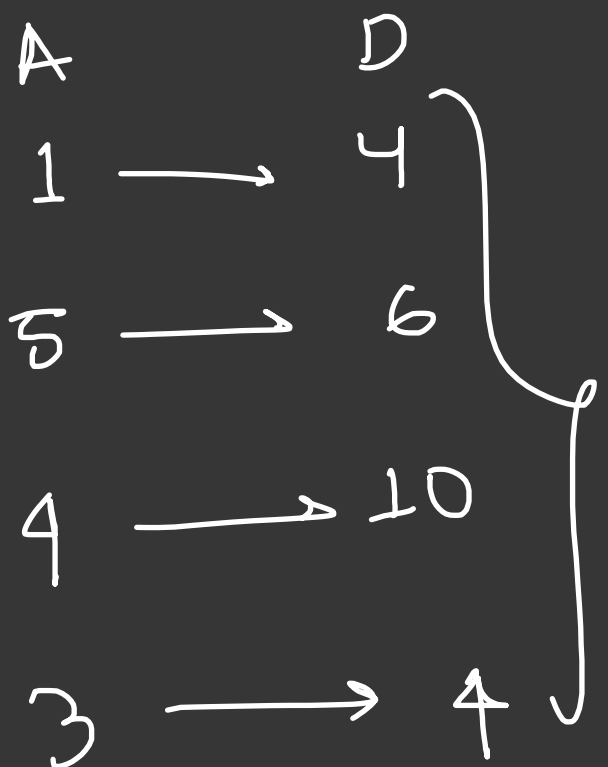
2 → 1 2

1 → 1 3

min


a b c d e
a b c d e

Daily DSA Revision
is must and
necessary.



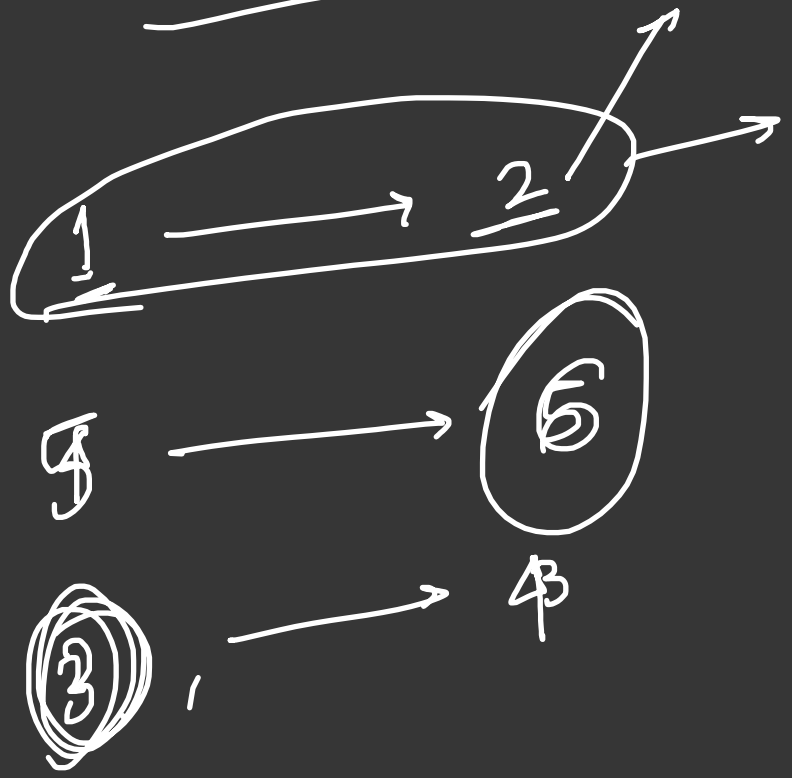
4
4
min runways

N = 4 airplanes

i=1 Ajm mjh

Dim mn

When will be runway created



1

Arrival time already planed

depart

A D

1 → 2

4 → 6

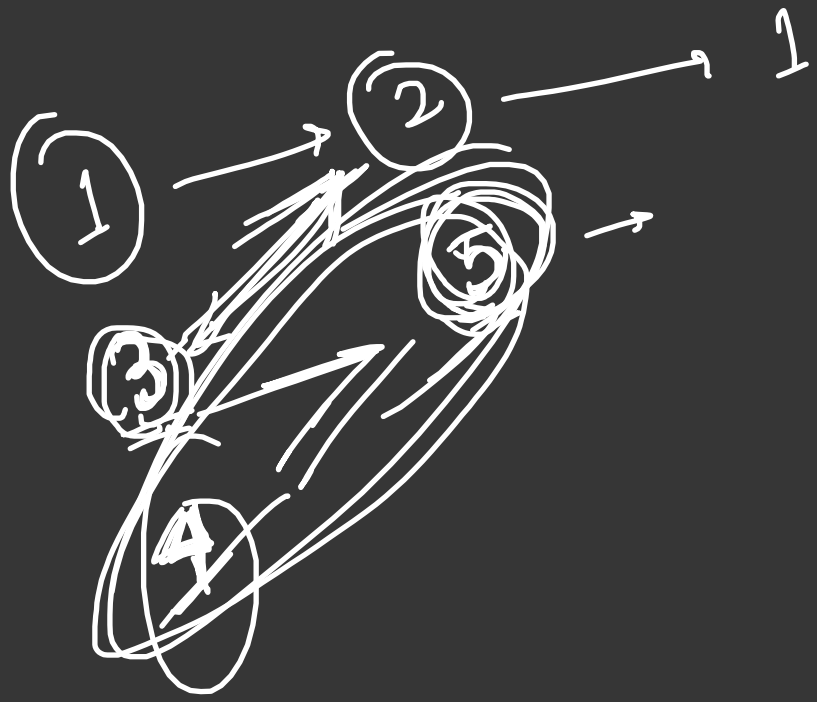
3 → 5

Arrive D

1 → 2

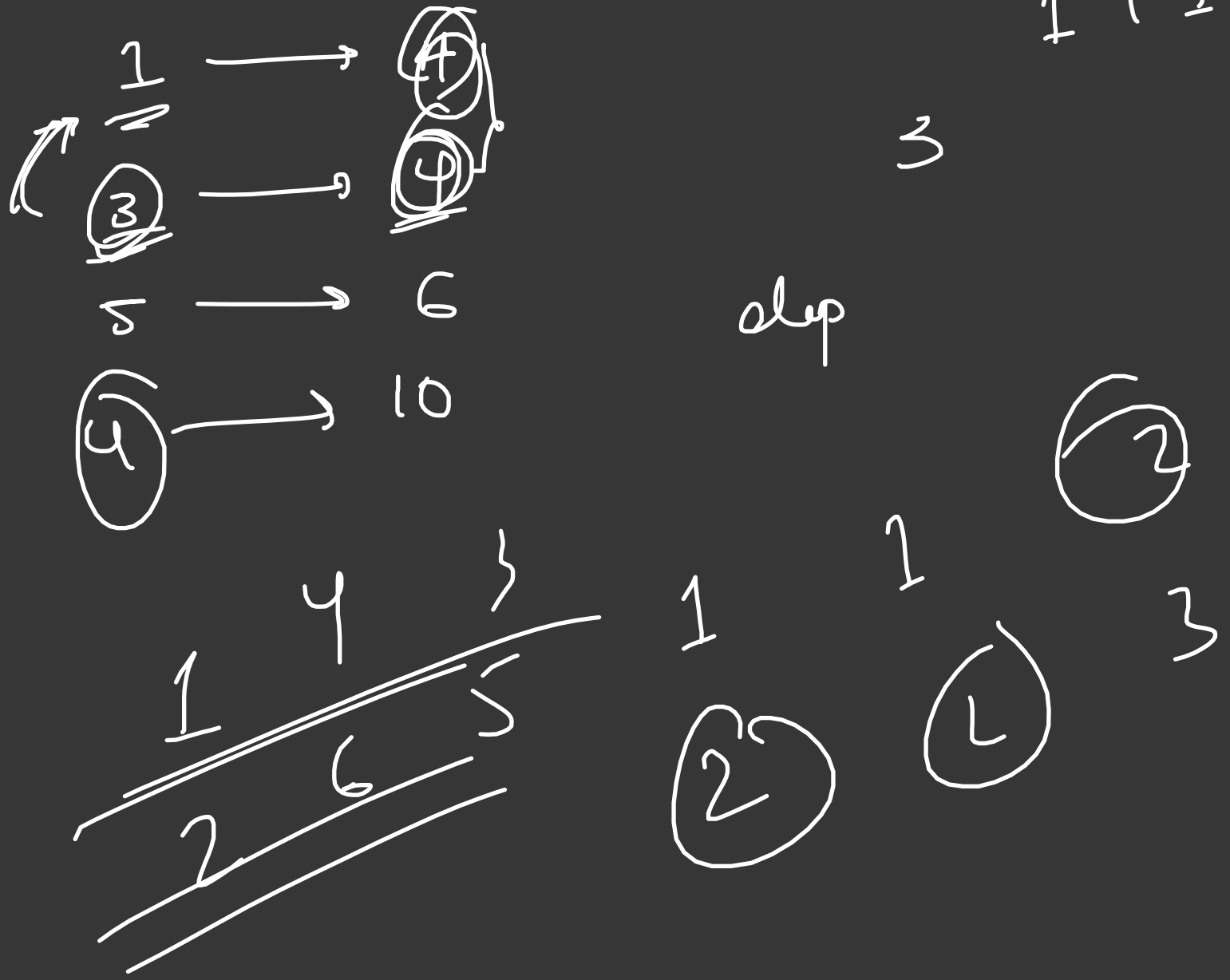
3 → 5

4 → 6



running run

4 = 4


1 + 1
1
3
5
6
9
10
dup
2
4
3
1
1
1
5
6
2
3
2
1

mp[s] = 1

map[

map

mp[arr[i]]++

1 → 2

max

max

m3

N empty boxes

M → 1 ⟶ M

colors

no of colours = Arr (M)

Valid distribution karke

Find min no. of boxes having M balls

every ball is placed

all ball are different

5 3

5 4 4

1 2 3

4+4+5=13

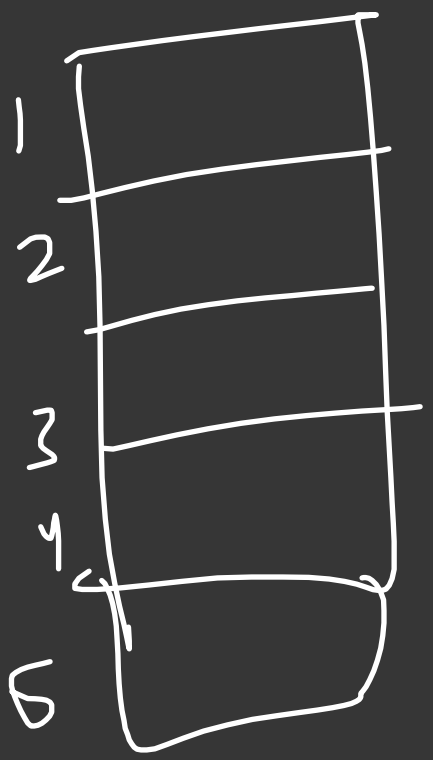
5×3=15

15
13
2

1 2 3

1 2 3

1 2 5



Today

2×2=4

5+4+4

8+5

13

15
13
2

5-2

2

15
13
2

5-2

5×3=15

2×2=4

4=2×2

4
-2
2

2-2=0

1+1

N=2

M=2

1+1

4
-2
2
2

2-2=0

N = empty box

Valid distr

Minimum no. of boxes

M balls

n/2

11 > 15

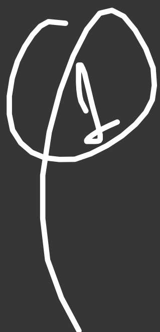
13

1

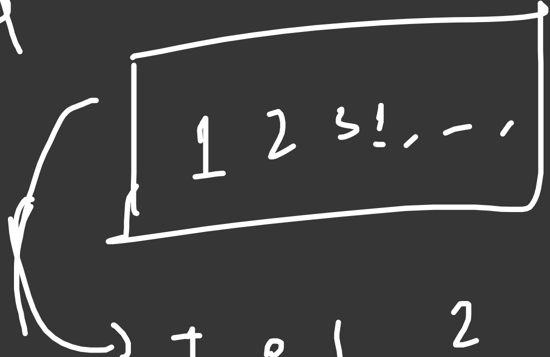
total

Valid distribution

6 4 4



5X4



1	0	1	2	5
1	1	1	2	3
1	2	1	2	3
1	3	1	2	4
	7	1	3	4