* Nikunj Ee Donuts :→

input = { 300, 900, 600 };
0 1 2

2^0 × 300 = 300
2^1 × 900 = 1800
2^2 × 600 = 2400
4500 → thumbajeeth.

300, 600, 900
300 + 1200 + 1800 = 3300 miles (optimal)

900, 600, 300
2^0 2^1 2^2
1 2 3

(1L << i)
1L << 0
1L << 1
1L << 2

0001
20
21
22
23

0001 → 1
0010 → 2
0100 → 3
1000 → 4

Policemen Ee Thieves :→

P [0 3]
T [1, 2, 4]

2 <= 1

T P T Deque

Approach:

[T0, T1, P2, P3, T4, P5] k = 2

Step	Index	Character	Task	Queues (T, P)	Result
0	0	T	Add to T	T[0], P[]	0
1	1	T	Add to T	T[0,1], P[]	0
2	2	P	Add to P	T[0,1], P[2]	✓
			Pop	T[0], P[2]	1
3	3	P	Add to P	T[1] P[3]	✓
			Pop	T[1] P[3]	2
4	4	T	Add to T	T[4] P[]	2
5	5	P	Add To P	T[4] P[5]	✓
			Pop	T[4] P[5]	3

PPPTT (while) T[] P[]

Relation b/w classes in a project:

OOPs + [Association]

* → HAS-A → Aggregation
Car | MP3 player
Loose Coupling
(Not inheritance) → reference → Var

* → IS-A → Composition
Car | Engine
Tight Coupling
(Inheritance)