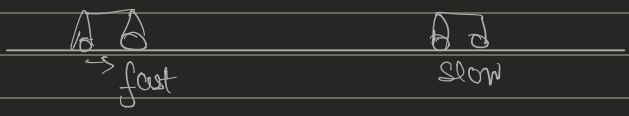
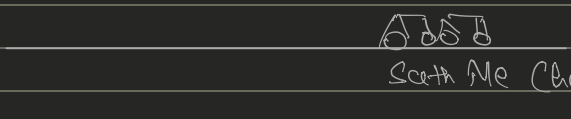
Car Fleet -> 1

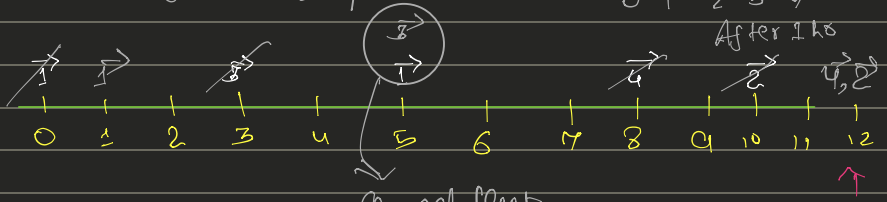




Ex1 => Target = 12

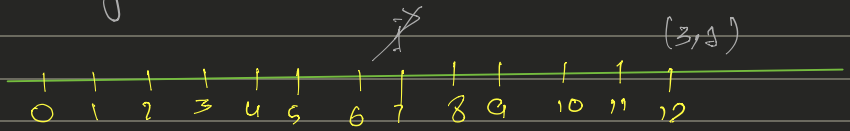
Pos = 10 | 8 | 0 | 5 | 3
0 1 2 3 4

Speed = 2 | 4 | 1 | 1 | 3
0 1 2 3 4



(4, 2) => one fleet

After 6 hr



(4, 2) -> 1st
(3, 1) -> 2nd
1 -> 3rd

} Total fleet -> 3

Stack Approach

Target = 12

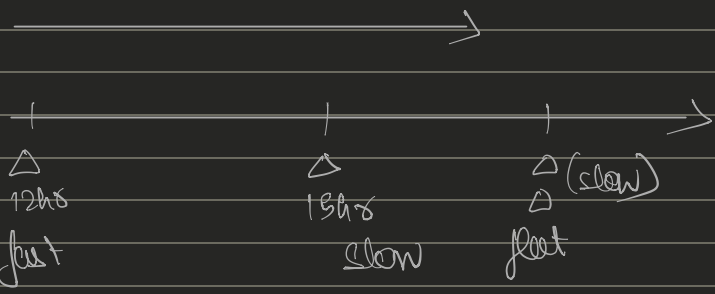
(5-1) Input -> Pos -> 0 | 3 | 5 | 8 | 10

Speed -> 1 | 3 | 1 | 4 | 2

Time -> 12 | 3 | 7 | 1 | 1 -> Absolute Time

Time = dist / speed

$$Time = \frac{Target - Pos[i]}{Speed[i]}$$



Time -> 12 | 3 | 7 | 1 | 1

Pair, Pair -> X

↳ Single fleet

(1, 1) fleet

(3, 4) -> fleet

Time =>	12	3	7	1	1
	0	1	2	3	4

i = 0, Pos 0, 12 hrs

i = Pos = 3, 3 hrs

Pos = 5, 2 hrs

Pos = 8, 1 hrs

Pos = 10, 1 hrs

~~11~~ → (3)
~~3~~ 7 → (2)
12 → (1)

while (time > stack.top()) {

```
st.pop();
}
st.push(time)

Return st.size();
```

ex->

	0	1	2
Pos ->	0	2	4
speed ->	2	3	1
Time ->	5	2.66	6

Target = 10

Car 1 -> i = 0, pos = 0, 5 hr -> push

Car 2 -> i = 1, pos = 2, 2.66 hr -> push

Car 3 -> i = 2, pos = 4, 6 hr -> pop

6

~~2.66~~

~~5~~