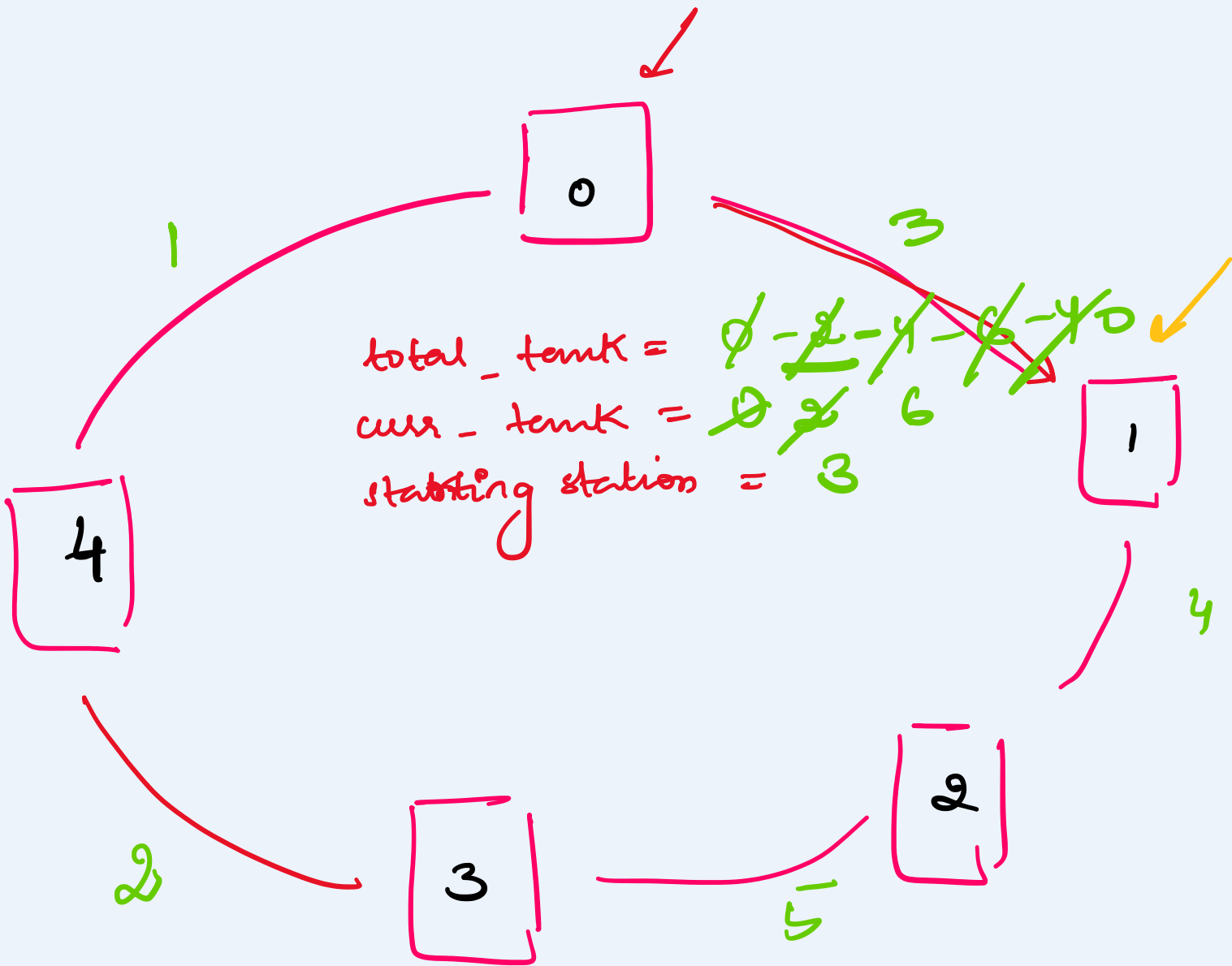


Q Gas station

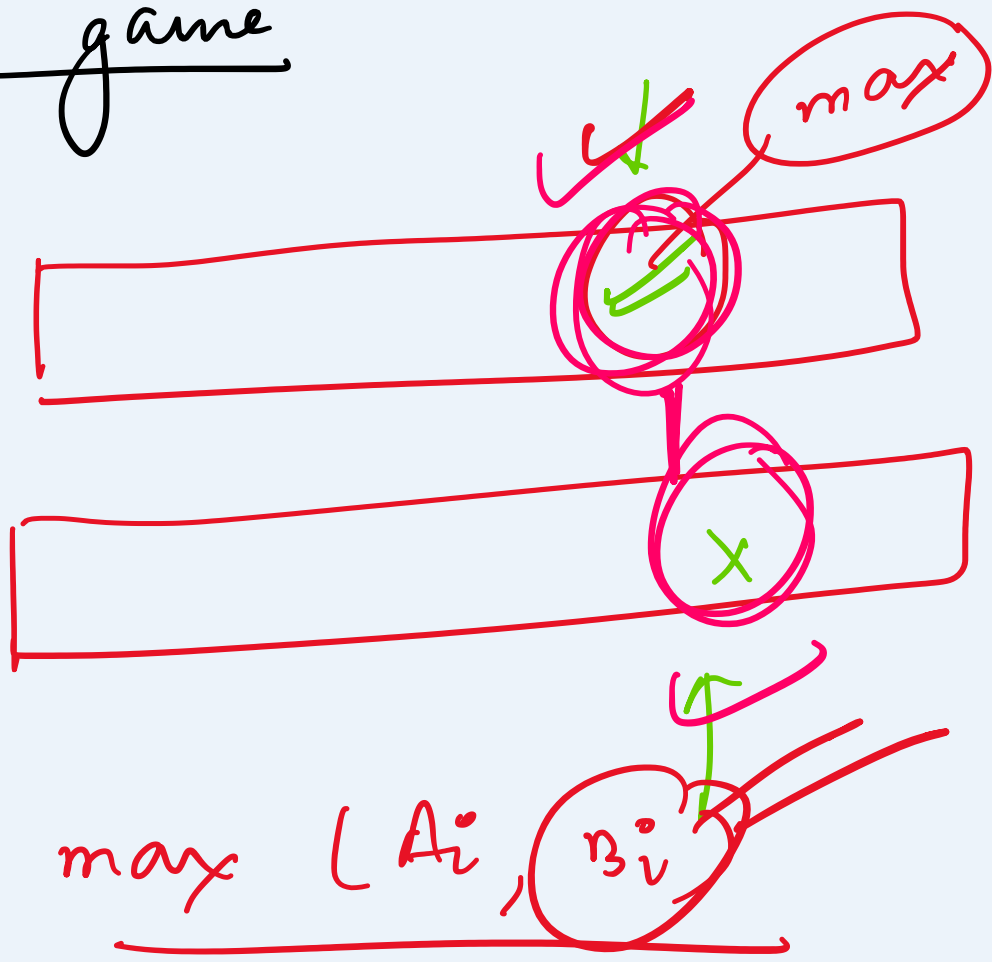
$\text{sum}(\text{gas}) < \text{sum}(\text{cost}) \rightarrow -1$

Total amount of gas in one trip  
 $= \text{sum}(\text{gas}) - \text{sum}(\text{cost})$

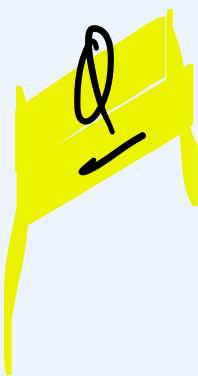
$\checkmark \text{ gas}[i] - \text{cost}[i] < 0$



Q Crofts game



sort dec order of  $\max \text{sum}(A_i + B_i)$



Fractional knapsack

value  $\rightarrow$  weight

ratio of  $\left( \frac{\text{value}}{\text{weight}} \right)$   
Then sort it.