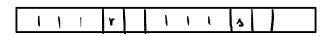
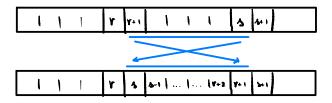
Suppose that at iteration t I find the first swap evailable at i=r, j=s.



This means that each poir (i,i), i < r /j
and i=r /j + [r+1, s-1] has already been
thecked and didn't have a surp needed

I then reverse [r+1, s]:



Courider icr:

- · if jer then the xwap didn't >> no new surps drange anything
- j=v:

A surp occurs if
$$C_{i,i+1} + C_{j,j+1} > C_{ij} + C_{i+1,j+1}$$

· if j ∈ [+1, s-1] 1 just reverses the order, to

each pair has dreshy been checked \Rightarrow to new swap

if j=3:

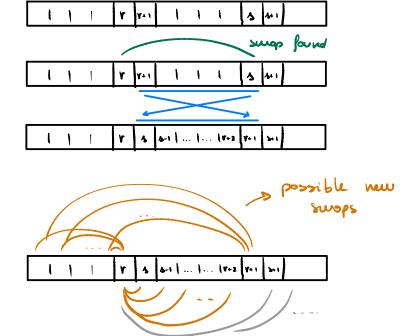
A supp accours if $C_{i,i+1} + C_{j,j+1} > C_{ij} + C_{ii,j+1}$ $C_{i,i+1} + C_{rii,j+1} > C_{i,r+1} + C_{i+1,r+1}$ Need to check again

if $j>3 \Rightarrow$ nothing changed \Rightarrow to new swaps

Consider $\hat{A}=V$:

I will need to check openic by { [i+1, s-1] and then continue from where I stopped.

This meons:



IP I find a new sups before reaching the point I was of before (one of the vonge ore): ARCS! if I find a surop in the main cycle: - veste a preve with all oras to death before maring ou - if en erc in the preve finds a · reverse · add to the start of the preve new eres to deach · repeat - if the preve is outher, countine with the mein cycle

Repeat HII vo sweps found.