## GUROBI SOLVING OF @-ALTERNATIVE

$$C(i,3)$$
 -> Completion time of operation i of  $J_{TH}$  Job in the sequence  $OR(3)$  -> 1 if  $J_{TH}$  patient of reliable associons in the OR.  $R(J_{TH})$  -> Binary 1 if Job 32 in in  $J_{J_{TH}}$  position of the reliable  $OF$ .  $= C(3N)$ 

. S(3, K,7)= 1/2 P(0-1, K) = (K,7).

Model: @	$C(4-4,4-4) - S(4,K,4) = \emptyset$		Initialization and
<u>@</u>	) OB(N-64) = 7		findication
100	<u>∑1</u> <u>₹(3,31)</u> =1	<b>A</b> <sup>2</sup>	Only on 30 pur
11	) \(\sum_{1}^{27}\) \(\int_{1}^{27}\) = 1	A <sup>2</sup>	position.
<b>(</b>	C(2,3)-S(2,k,3)=C(1,3)	۸ <del>2</del>	No Time Getween A(3), S(3), Au(3)
@	((3,3)-S(3,k,3) = ((2,3)	Λ²	
3	C(1,5+1)-5(1,1,5+1) » C(1,5)	A2 € [7 "N·T]	Oxedering of
0	(E,X,E) -> (E,E) > ( (AFE,X,E) > - (H-T,E) )	A2 € [7 "N·7]	- patients.
@	C(2, JH)-5(2,K,JH) > C(2,J)	A26 [1n-1]	] Non overlapping in The cor.
GUS	C(2,J+1)-S(2,K,J+1) > C(2,J)+S(3,K,J)+M·(1-OR(J))	A26 [1"n-1]	] Non overlapping in The or when or=
8	$C(3,7)-S(3,1,7) \gg C(1,5+1)-H\cdot OR(7)$	A26[3'N3]	Man overlapping of how(s) and
<b>⑦</b>	C(1,3+2)-S(1,K,7+2) >C(3,7)-M·OR(1)	A2€[7'n• <u>1</u> ]	Then overlapping of Auris and A(113) if Auris in App