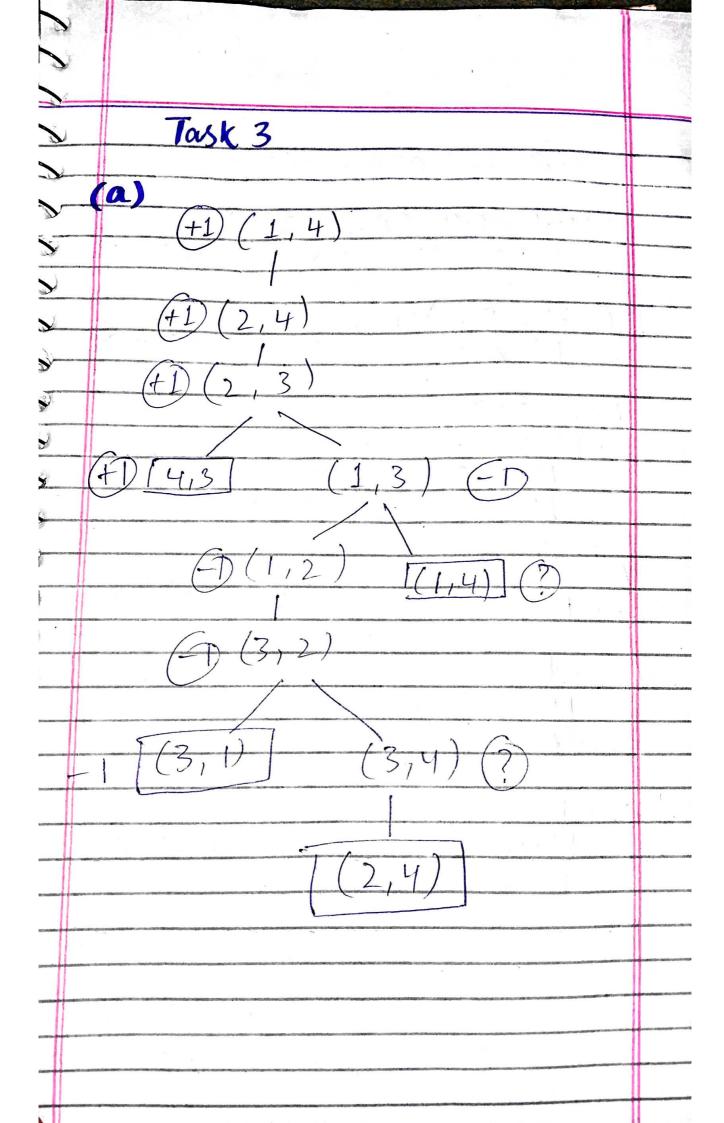
position and orientation or the board 5- Path cost: The cost of a path can be defined as the number of pieces placed. 6- Coustaints :-No overlapping tracks and no loose ends. A suitable informed search algorithm can be depth first search due to big state space it would work best, in order to achieve same result as other iterative or breadth first searches in few steps

lask 2 Initial Step and Population chromosomes: Represents routes & cities

fitness function: Inverse of the

bactial total distance of the route (nigner fines por snorters > Initial population: - Grenerale a set of possible roules. evaluation a) Fitness Assume 4 cities ABCD) and b/w them: distances A - B = 2B-C=4 B-D=3A-C=5 C-D=2A-D=6Routes in initial population Route1: A-B-C-D-A (2+4+2+6=14) Roule 2: A-C-B-D-A/5+4+3+6 =18, Roule3: A-D-B-C-A (6+3+4+5 = 18)

	Fitness calculation
	Route 1 fitness: 1/14 Route 2 fitness: 1/18 Poute 3 fitness: 1/18
	Sorted based on fitness
2	1. Route 1 . Route 2 . Route 3
CONTRACTOR OF THE PARTY OF THE	Crossover Operations
C	me-point crossover (middle point) on the fittest two individuals:
	Parent 1: Route 1 (A-B-C-D-A) Parent 2: Route 2 (A-C-B-D-A) Despring: A-C-C-D-A and A-B-B-B-D-A
()	New population
2.	A-C-C-D-A A-B-B-D-A



	(b)	_
The second second	Applying Olatic 1 To 12	-
The state of the s	Applying Alpha beta pruning	
	Initial state (A:1. R:4)	-
	Initial state (A:1, B:4) Player A moves to position 2	-
	(A:2, B:4):	-
of retaining the state of the s	· Player B moves to position 3	
	Martin and a state of the control of	Nonday or other Designation of the London or
((A:2, B:3):	
-	· Player A has two options	
-	· Move 103: (A:3, R. 2)	
Acres consistents and the	· Move to 1: (A:1, B:3)	
	Birton all and an analysis of the second and the se	
—(F	1:3 B:3)	Mentile Procession
-house plane	· Player B moves To position 2	
	The of the country of	- Torkin agen
	3 3 3° 2)	Production of the last
manufacture Paragraps	· Player B moves to position 4 (A wins): Value = +1.	
	(# wms): Value = +1.	
10.5		e-constraint
(4); 2	-) B:L)!	
-	· Player B moves to position!	eriotenum
	(Bwins): value = -1.	acco-Messive dubbases
Accessed to the latest terminal to the latest terminal te	· Player B moves to position I (Bwins): value = -1.	dana menerala
		gather received to
		ac the constitution
		traket densettetet
-		and reproducts
-		No. of Concession, Name of Street, or other Designation, Name of Street, Name
		100