	Sheikh Naveed Azeemi Roll NoFF 23K-0003
07 0° 1 0-	BAI - 4A
AI - Assignment - 02	DATE:
<u>Q2</u> )	<b>\</b> ,
a- Initial population	•
[[1,2,2,4,2,2,2],[2,2,3,1,3,1,1]	[, [2,3,3,1,1,1,1],
[3,2,2,3,3,1,1], [3,1,2,3,2,1,1]	
b- fitness	
[-522, -501, -10535, -500, -516	-80538]
Since the goal is to minimize cost & time,	a higher value (less negalire)
means lower fitness	
	· · · · · · · · · · · · · · · · · · ·
e-Weights	•
formula: If E fitness [f+abs (min (fitne	en))+1]
£g - 80023	
-516+1-80538 +1=80023.	
d-Selection	
Parent 1 = [3,2,2,3,3,1,1]	
Parent 2 = [3,2,2,3,3,1,1]	
e-Crossover	
child 1 = [3,2,2 3,3,1,17	
Child 2 = [3,2,2,3,3,1,17	
f- Mutalton	
child $1 = [3,2,2,1,3,3,1]$	
child $2 = [2, 3, 2, 3, 3, 1, 1]$	
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		DAT	E:
Q4)	x 1 1		
	× 0 0		
X X X X X	X X X D O O	x x x x 0 0 0 %	X Z Z
X X O X X O X O O O O O O O O O O O O O	$\begin{array}{c c} x & x & x \\ \hline x & o & x \\ \hline x & o & x \\ \hline \end{array}$	- - -	
-190 -100	-10 V=-100	0	
	X 0 X X X X X X X X X X X X X X X X X X	X 0, 0 X	X O
	10 C	-180	90
X will choose alight	most block		
		- ,	
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	DA	TE.
Q5)	O 0=\$6 6=\$6	
9-	6-\$6	Secretary and definition of the secretary and th
C	3:2	
	2	
B = 1	Q 3= 4 Q 3= 8 Q 3= 6 B = 9 B =	
	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	
	2046846	
2	2046846	
<del></del>		
]	Q a = 6 B = 6	
b-	B26	
· · · · · · · · · · · · · · · · · · ·	a=6 B=6	
	B=6 $C$ $B=4$	
a	26 / a28 / 11 X	
B	a 2 8 a 2 4 X a 2 4 X B 2 6 B 2 6	
5.0		,
	/	
<i>*</i>		
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(Oe)
ai) Attacker: Seeks & compounise or breach the system  Defender: Aims W protect & secure the system
Defender: Aims W protect & secure the system
ii) The defender aims to gain & maintain an advantage, reducing the attacker's effectiveness
The attacker's effectiveness
The attailer conducts checks to Identify & exploit wealchesses
in the defender's shalegy
iii) With stochastic elements, defenders consider multiple strategles
based on probablily
b&c- max -50 ()
De proy frewall Paten Glests
De proy firewall Patch system
-50 D -70 D
-40 -50 -60 -70 -8
-10 - 20 -30 -40 -50 -30 -40 -50 -60 - 10
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